

## UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS: WELL LOG ELECTRIC LOGS ☒ FILE WATER SANDS LOCATION INSPECTED SUB. REPORT/abd.

CONFIDENTIAL STATUS EXPIRED 7-13-95 960401 OPER. NM. CHG.

DATE FILED 12-14-93

LAND. FEE &amp; PATENTED

STATE LEASE NO.

PUBLIC LEASE NO. UTU-72106

INDIAN

DRILLING APPROVED: 12-20-93

SPUDED IN: 5-8-94

COMPLETED: 6-13-94 POW PUT TO PRODUCING: 6-13-94

INITIAL PRODUCTION:

GRAVITY A.P.I.

GOR:

PRODUCING ZONES:

TOTAL DEPTH:

WELL ELEVATION:

DATE ABANDONED:

FIELD:

MONUMENT BUTTE

UNIT:

COUNTY:

DUCHESNE

WELL NO

BALCRON MONUMENT FEDERAL 31-17

API NO. 43-013-31428

LOCATION

660' FNL

FT. FROM (N) (S) LINE.

1980' FEL

FT. FROM (E) (W) LINE.

NW NE

1/4 - 1/4 SEC.

17

TWP.

RGE.

SEC.

OPERATOR

TWP.

RGE.

SEC.

OPERATOR

9S

17E

17

EQUITABLE RESOURCES

## GEOLOGIC TOPS:

QUATERNARY	Star Point	Chinle	Molas
Alluvium	Wahweap	Shinarump	Manning Canyon
Lake beds	Masuk	Moenkopi	Mississippian
Pleistocene	Colorado	Sinbad	Humburg
Lake beds	Sego	PERMIAN	Brazer
TERTIARY	Buck Tongue	Kaibab	Pilot Shale
Pliocene	Castlegate	Coconino	Madison
Salt Lake	Mancos	Cutler	Leadville
Oligocene	Upper	Hoskinnini	Redwall
Norwood	Middle	DeChelly	DEVONIAN
Eocene	Lower	White Rim	Upper
Duchesne River	Emery	Organ Rock	Middle
Uinta	Blue Gate	Cedar Mesa	Lower
Bridger	Ferron	Halgaite Tongue	Ouray
Green River	Frontier	Phosphoria	Elbert
W. Suberch Sandstone 1450'	Dakota	Park City	McCracken
N. Garden Gulch 5700'	Burro Canyon	Rico (Goodridge)	Aneth
G-2 Sandstone 4000'	Cedar Mountain	Supai	Simonson Dolomite
Yellow Mkr 4300'	Buckhorn	Wolfcamp	Sevy Dolomite
Ogallala Creek 4500'	JURASSIC	CARBON I FEROUS	North Point
W. J. Sandstone 4500'	Morrison	Pennsylvanian	SILURIAN
W. J. Sandstone 4500'	Salt Wash	Oquirrh	Laketown Dolomite
W. J. Sandstone 4500'	San Rafael Gr.	Weber	ORDOVICIAN
W. J. Sandstone 4500'	Summerville	Morgan	Eureka Quartzite
W. J. Sandstone 4500'	Bluff Sandstone	Hermosa	Pogonip Limestone
W. J. Sandstone 4500'	Curtis		CAMBRIAN
W. J. Sandstone 4500'	Colorado	Pardox	Lynch
W. J. Sandstone 4500'	Buck Tongue	Ismay	Bowman
W. J. Sandstone 4500'	Samuel	Desert Creek	Tapeats
W. J. Sandstone 4500'	Green Canyon Gr.	Akah	Ophir
W. J. Sandstone 4500'	Navajo	Barker Creek	Tintic
W. J. Sandstone 4500'	Kayenta		PRE-CAMBRIAN
W. J. Sandstone 4500'	Wingate	Cane Creek	
W. J. Sandstone 4500'	TRIASSIC		



**EQUITABLE RESOURCES  
ENERGY COMPANY**

**BALCRON OIL DIVISION**

1601 Lewis Avenue  
P.O. Box 21017  
Billings, MT 59104

Office: (406) 259-7860  
FAX: (406) 245-1365 ☐  
FAX: (406) 245-1361 ☒

**RECEIVED**  
DEC 14 1993

**DIVISION OF  
OIL, GAS & MINING**

December 13, 1993

-- VIA FEDERAL EXPRESS --

Bureau of Land Management  
170 South 500 East  
Vernal, UT 84078

Gentlemen:

Enclosed are Applications for Permit to Drill the following wells:

Balcron Monument Federal #31-17

Balcron Monument Federal #22-17

Balcron Monument Federal #14-4

Balcron Monument Federal #11-25

Balcron Monument Federal #12-17

As operator, we hereby request that the status of this well be held TIGHT for the maximum period allowed by Federal and State regulations.

Sincerely,

*Bobbie Schuman*

Bobbie Schuman  
Coordinator of Operations,  
Environmental and Regulatory Affairs

/rs

Enclosures

cc: Utah Division of Oil, Gas and Mining

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

**CONFIDENTIAL**

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

Type of Work DRILL ☒ DEEPEN ☐ PLUG BACK ☐

Type of Well  
Oil Well ☒ Gas Well ☐ Other ☐  
Single Zone ☐ Multiple Zone ☐

Name of Operator  
Equitable Resources Energy Company, Balcron Oil Division

Address of Operator  
P.O. Box 21017; Billings, MT 59104

Location of Well (Report location clearly and in accordance with any State requirements.)  
At surface 660' FNL, 1980' FEL NW NE Sec. 17, T9S, R17E

At proposed prod. zone

Distance in miles and direction from nearest town or post office\*  
From Myton, Utah, approximately 16 miles Southwest

Distance from proposed location to nearest property or lease line, ft.  
(Also to nearest drilg. line, if any)

18. No. of acres in lease

17. No. of acres assigned to this well

Distance from proposed location to nearest well, drilling, completed, or applied for, on this lease, ft.

19. Proposed depth

20. Rotary or cable tools

Elevations (Show whether DF, RT, GR, etc.)

GL 5359.8'

22. Approx. date work will start\*

Upon APD approval

PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
See attached				

Operator plans to drill this well in accordance with the attached Federal Application for Permit to Drill.

**RECEIVED**

DEC 14 1993

DIVISION OF  
OIL, GAS & MINING

ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

I hereby certify that this report is true and complete to the best of my knowledge.

Signed Bobbie Schuman

Coordinator of Environmental  
and Regulatory Affairs

December 13, 1993

(This space for Federal or State office use)

API NO. 13-013-31408

Approval Date

Approved by

Conditions of approval, if any:

Title

APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING  
DATE: 12-20-93  
BY: Matthews  
WELL SPACING: 649-3-2

\*See Instructions On Reverse Side



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

b. TYPE OF WELL

OIL  
WELL ☒

GAS  
WELL ☐

OTHER ☐

SINGLE  
ZONE ☐

MULTIPLE  
ZONE ☐

2. NAME OF OPERATOR

EQUITABLE RESOURCES ENERGY COMPANY, Balcron Oil

3. ADDRESS OF OPERATOR

P.O. Box 21017; Billings, MT 59104

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

At surface

660' FNL, 1980' FEL NW NE Sec. 17, T9S, R17E

At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

From Myton, Utah, approximately 16 miles southwest.

16. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drlg. unit line, if any)

18. DISTANCE FROM PROPOSED LOCATION\*

TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

16. NO. OF ACRES IN LEASE

19. PROPOSED DEPTH

6,000'

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

GL 5359.8'

22. APPROX. DATE WORK WILL START\*

Upon APD approval

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
		See attached		

EXHIBITS ATTACHED

"A" PROPOSED DRILLING PROGRAM  
"B" PROPOSED SURFACE USE PROGRAM  
"C" GEOLOGIC PROGNOSIS  
"D" DRILLING PROGRAM/CASING DESIGN  
"E" HAZMAT DECLARATION  
"F" SURVEY PLAT  
"G" RIG LAYOUT

"H" BOPE DIAGRAM  
"I" EXISTING ROADS (Map A)  
"J" PLANNED ACCESS (Map B)  
"K" EXISTING WELLS (Map C)  
"L" CUT & FILL DIAGRAM  
"M" ARCHEOLOGY REPORT  
"N" PROPOSED PRODUCTION FACILITY DIAGRAM

DEC 14 1993

DIVISION OF  
OIL, GAS & MINING

SELF CERTIFICATION: I hereby certify that I am authorized, by proper lease interest owner, to conduct these operations associated with the application. Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Equitable Resources Energy Company as principal and Safeco Insurance Company of America as surety under BLM Bond No. MT-0576 (Nationwide Oil & Gas Bond #5547188) who will be responsible for compliance with all of the terms and conditions of that portion of the lease associated with this application.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

Coordinator of Environmental  
and Regulatory Affairs

December 13, 1993

SIGNED

Bobbie Schuman

TITLE

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

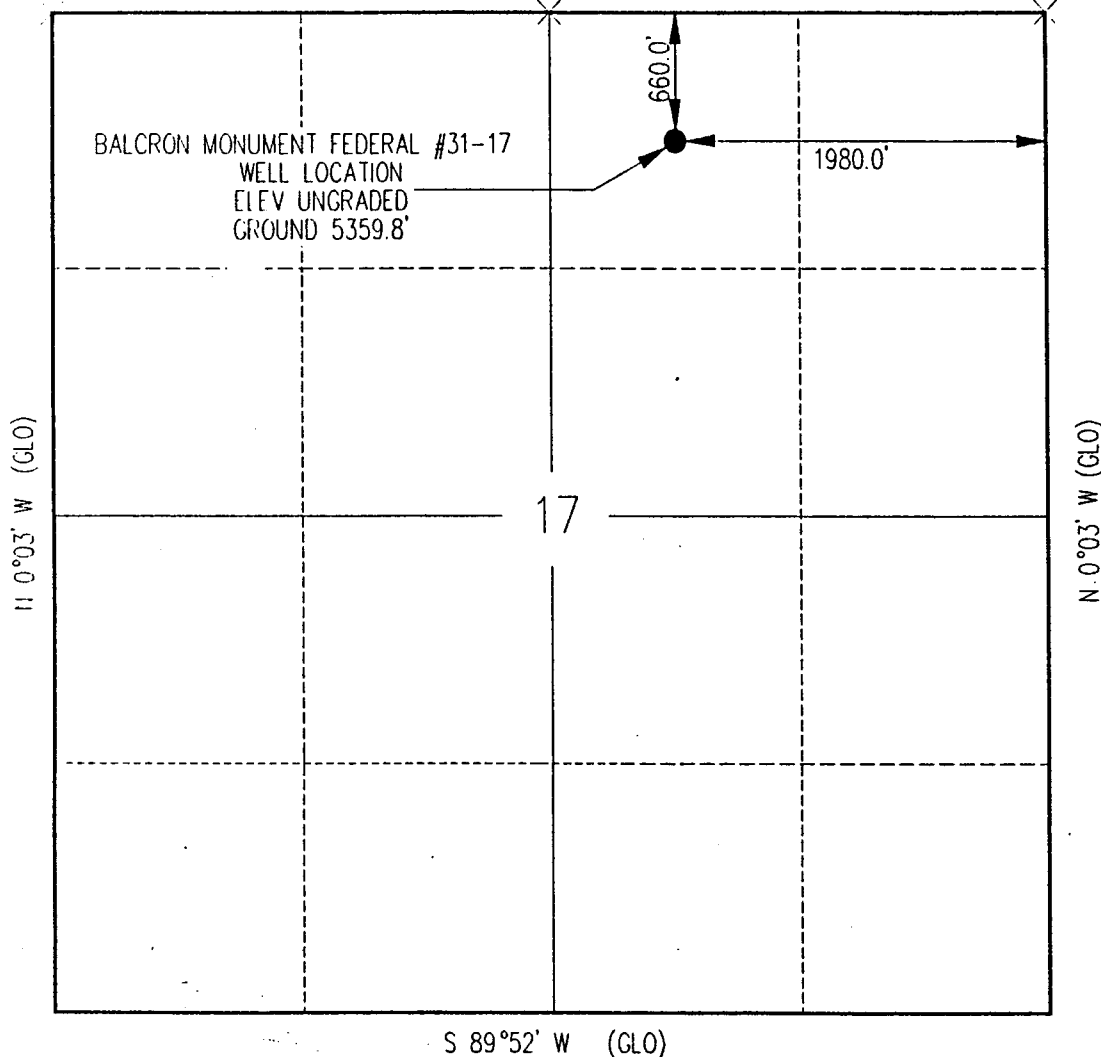
\*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

EXHIBIT "F"

T9S, R17E, S.L.B. & M.

S 89°52' W (GLO) BASIS OF BEARINGS

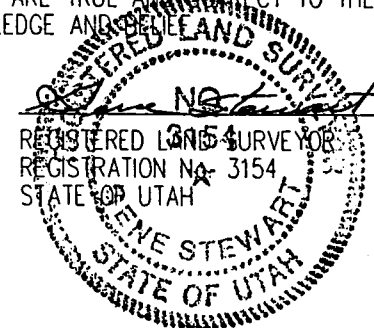


EQUITABLE RESOURCES ENERGY CO.

WELL LOCATION, BALCRON MONUMENT FEDERAL #31-17, LOCATED AS SHOWN IN THE NW 1/4 NE 1/4 OF SECTION 17, T9S, R17E, S.L.B. & M, DUCHESNE COUNTY UTAH.



THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



X = SECTION CORNERS LOCATED  
BASIS OF BEARINGS; G.L.O. PLAT 1911  
BASIS OF ELEV; U.S.G.S. 7-1/2 min QUAD (MYTON SE)

WEATHER: CLEAR & WARM
DATE: 11/6/93
SCALE: 1" = 1000'
SURVEYED BY: GS HW
FILE: 31-17



EQUITABLE RESOURCES ENERGY COMPANY  
Balcron Oil Division  
Balcron Monument Federal #31-17  
NW NE Section 17-T9S-R17E  
Duchesne County, Utah

In accordance with requirements outlined in 43 CFR 3162-3.1 (d):

1. ESTIMATED IMPORTANT GEOLOGICAL MARKERS:

See Geologic Prognosis (EXHIBIT "C")

2. ESTIMATED DEPTHS OF ANTICIPATED OIL, GAS OR WATER:

See Geologic Prognosis (EXHIBIT "C")

3. OPERATOR'S MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

- a. EXHIBIT "H" is a schematic of the BOP equipment and choke manifold. A 2M system will be used. The BOPE will be installed after setting 8-5/8" casing at 260'. The blind rams and pipe rams will be tested to 1500 psi. Pipe rams will be operationally checked each 24-hour period and blind rams each time pipe is pulled out of the hole.
- b. The BOPE will be tested to 1500 psi when initially installed, whenever any seal subject to test pressure is broken, and following related repairs. The pipe and blind rams will be activated at least weekly and on every trip the pipe and blind rams will be activated.
- c. An accumulator of sufficient capacity to open the hydraulically-controlled choke valve lines (if so equipped), close all rams, and retain a minimum of 200 psi above precharge on the closing manifold without the use of the closing unit pumps will be installed during the drilling of this well.
- d. An upper kelly cock will be used during the drilling of this well.
- e. Visual mud monitoring equipment will be used to detect volume changes indicating loss or gain in circulating fluid volume.
- f. Sufficient quantities of mud materials will be maintained or readily accessible for the purpose of assuring well control.

4. PROPOSED CASING AND CEMENTING PROGRAM:

- a. Surface casing will be set in the Uinta formation to approximately 260' and cemented to surface.
- b. All potentially productive hydrocarbon zones will be isolated.
- c. Casing designs are based on factors of burst: 1.25, collapse: 1.125, and joint strength: 1.8.
- d. All casing strings will be pressure tested to 0.22 psi/ft. of casing string length or 1500 psi whichever is greater (not to exceed 70% of yield).
- e. For details of casing, cement program, drilling fluid program, and proposed mud program, see the following two attachments:

Drilling Program/Casing Design (EXHIBIT "D")  
Geologic Prognosis (EXHIBIT "C")

5. HAZARDOUS PRESSURES, TEMPERATURES, FLUIDS/GASSES EXPECTED:

- a. Expected bottom hole temperature is 125 degrees F. Expected bottom hole pressure is 1500 psi.
- b. No abnormal pressures or temperatures have been noted or reported in wells drilled to the Green River formation in this area.
- c. No dangerous levels of hydrogen sulfide, hazardous fluids, or gasses have been found, reported, or known to exist at the depth to be drilled in this well, in this area.

6. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS:

- a. The drilling operations for this well will begin as soon after APD approval as possible.
- b. These drilling operations should be completed within 12 days after spudding the well depending on weather and hole conditions.
- c. If the well is productive, a sundry notice and plat showing exact installed facilities will be submitted.
- d. If this well is non-productive, a sundry notice will be filed with the BLM District Office within 30 days following completion of the well for abandonment.

**Multi-Point Surface Use and Operations Plan**

EQUITABLE RESOURCES ENERGY COMPANY  
BALCRON OIL DIVISION  
BALCRON MONUMENT FEDERAL #31-17  
NW NE SECTION 17, T9S, R17E  
DUCHESNE COUNTY, UTAH

**1. Existing Roads: Refer to Maps "A" & "B" (shown in RED)**

- A. The proposed well site is staked and four reference stakes are present. 150' & 200' SE and 225' & 275' SW.
- B. The Monument Federal #31-17 is located 16 miles Southwest of Myton Utah in the NW1/4 NE1/4 Section 17, T9S, R17E, SLB&M, Duchesne County, Utah. To reach the 31-17, proceed West from Myton, Utah along U.S. Highway 40 for 1.6 miles to the junction of this highway and Sand Wash road; Proceed South along the Sand Wash road approximately 10.6 miles to a road intersection, turn right and continue 1.3 miles to proposed access road sign. Follow flags 700 feet to location.
- C. Access roads - refer to Maps "A" and "B".
- D. Access roads within a one-mile radius - refer to map "B".
- E. The existing roads will be maintained in the same or better condition as existed prior to the commencement of operations and said maintenance will continue until final abandonment and reclamation of the well location.

**2. Planned Access Roads: Refer to Map "B"**

Approximately 700 feet of new road construction will be required for access to the proposed well location.

- A. Width - maximum 30-foot overall right-of-way with an 18-foot road running surface, crowned & ditched and/or sloped and dipped.

- B. Construction standard - the access road will be constructed so as to conform to the standards outlined in the Bureau of Land Management and Forest Service publication: Surface Operating Standards for Oil and Gas Exploration and Development. (1989)

The road will be constructed to meet the standards of the anticipated traffic flow and all-weather requirements. Construction will include ditching, draining, crowning, and capping or sloping and dipping the roadbed as necessary to provide a well constructed and safe road. Prior to construction/upgrading, the roadway shall be cleared of any snow cover and allowed to dry completely. Traveling off of the thirty (30) foot right-of-way will not be allowed.

Road drainage crossings shall be of the typical dry creek drainage crossing type. Crossing shall be designed so they will not cause siltation or the accumulation of debris in the drainage crossing nor shall the drainages be blocked by the roadbed. Erosion of drainage ditches by runoff water shall be prevented by diverting water off at frequent intervals by means of cutouts.

Upgrading shall not be allowed during muddy conditions.

Should mud holes develop, they shall be filled in and detours around them avoided.

- C. Maximum grade - Less than 8%
- D. Turnouts - no turnouts will be required on this access road.
- E. Drainage design - the access road will be crowned and ditched or sloped and dipped, and water turnouts installed as necessary to provide for proper drainage along the access road route.
- F. Culverts, cuts and fills - no culverts will be required. There are no major cuts and/or fills on/along the proposed access road route.
- G. Surface materials - all construction materials will be native material taken from onsite.
- H. Gates, cattleguards or fence cuts - none required.
- I. Road maintenance - during both the drilling and production phase of operations, the road surface and shoulders will be kept in a safe and useable condition and

will be maintained in accordance with the original construction standards. All drainage ditches and culverts will be kept clear and free-flowing, and will also be maintained in accordance with the original construction standards. The access road right-of-way will be kept free of trash during operations.

J. The proposed access road has been centerline flagged.

K. If a right-of-way is required please consider this APD the application for said right-of-way.

### **3. Location of Existing Wells Within a One-Mile Radius:**

Please Refer to Map "C"

- A. Water wells - none known.
- B. Abandoned wells - see Map "C"
- C. Temporarily abandoned wells - none known.
- D. Disposal wells - none known.
- E. Drilling wells - none known.
- F. Producing wells - see Map "C".
- G. Shut-in wells - none known.
- H. Injection wells - none known.
- I. Monitoring wells - none known.

### **4. Location of Existing and/or Proposed Facilities Owned by Equitable Resources Energy Company Within a One-Mile Radius:**

#### **A. Existing**

- 1. Tank batteries - see Map "C".
- 2. Production facilities - see Map "C".
- 3. Oil gathering lines - none.
- 4. Gas gathering lines - see Map "C".

#### **B. New Facilities Contemplated**

- 1. All production facilities will be located on the disturbed portion of the well pad and at a minimum of twenty-five (25) feet from the toe of the backslope or toe of the fill slope.
- 2. The production facilities will consist primarily of a pumping unit, Two tanks and an emergency pit. ~~A diagram showing the proposed production facility layout will be submitted to the Authorized Office via Sunday Notice (Form 8160-S) for approval of subsequent installation operations.~~ See EXHIBIT "N" proposed production facility diagram.
- 3. Production facilities will be accommodated on the

existing well pad. Construction materials required for installation of the production facilities will be obtained from the site; any additional materials required will be purchased from a local supplier having a permitted (private) source of materials within the area.

A dike will be constructed completely around those production facilities which contain fluids (i.e. production tanks, produced water tanks and/or heater treater). These dikes will be constructed of compacted subsoil, be impervious, hold 100% of the capacity of the largest tank, and be independent of the back cut.

4. All permanent (onsite for six months or longer) above the ground structures constructed or installed including pumping units) will be painted Desert Brown. All production facilities will be painted within six (6) months of installation. Facilities required to comply with Occupational Health and Safety Act Rules and Regulations will be excluded from this painting requirement.
- C. The production (emergency) pit will be 12'x12' and will be fenced. Said fence will be maintained in good condition.
- D. During drilling and subsequent operations, all equipment and vehicles will be confined to the access road right-of-way and any additional areas as specified in the approved Application for Permit to Drill.
- E. Reclamation of disturbed areas no longer needed for operation will accomplished by grading, leveling and seeding as recommended by the Bureau of Land Management.

For Pipeline:

- F. Any proposed pipelines will be submitted to the authorized officer Via Sundry Notice for approval of subsequent operations.
- G. Equitable Resources Energy Company shall be responsible for road maintenance from the beginning to completion of operations.

## **5. Location and Type of Water Supply**

- A. Water to be used for the drilling of these wells will be



hauled by truck over the roads described in item #1 and item #2, from a well owned by Owen Dale Anderson of Vernal Utah or from a spring owned by Joe Shields of Myton Utah. Source will be determined by sundry notice closer to the beginning of drilling operations.

- B. No water well will be drilled on this location.

## **6. Source of Construction Materials**

- A. No construction materials are needed for drilling operations. In the event of production, the small amount of gravel needed for facilities will be hauled in by truck from a local gravel pit over existing access roads to the area. No special access other than for drilling operations and pipeline construction is needed.
- B. All access roads crossing Federal land are described under item #2, and shown on Map #A.

All construction material for these location sites and access roads shall be borrowed material accumulated during the construction of the location sites and access roads. No additional construction material from other sources is anticipated at this time, if in the future it is required the appropriate actions will be taken to acquire it from private sources.

- C. All surface disturbance area is on B.L.M. lands.
- D. There are no trees on this location.

## **7. Methods of Handling Waste Materials:**

- A. Cuttings - the cuttings will be deposited in the reserve pit.
- B. Drilling fluids - including salts and chemicals will be contained in the reserve pit. Upon termination of drilling and completion operations, the liquid contents of the reserve pit will be removed and disposed of at an approved waste disposal facility within one hundred twenty (120) days after termination of drilling and completion activities.

In the event adverse weather conditions prevent removal of the fluids from the reserve pit within this time period, an extension may be granted by the Authorized Officer upon receipt of a written request from Equitable Resources Energy Company.

The reserve pit will be constructed so as not to leak, break, or allow discharge. The reserve pit will be lined with a 12 mil plastic reinforced liner.

- C. Produced fluids - liquid hydrocarbons produced during completion operations will be placed in test tanks on the location. Produced waste water will be confined to a lined pit (reserve pit) or storage tank for a period not to exceed ninety (90) days after initial production. During the ninety (90) day period, in accordance with NTL-2B, an application for approval of a permanent disposal method and location, along with the required water analysis, shall be submitted for the Authorized Officer's approval. Failure to file an application within the time frame allowed will be considered an incidence of noncompliance.

Any spills of oil, gas, salt water or other noxious fluids will be immediately cleaned up and removed to an approved disposal site.

- D. Sewage - self-contained, chemical toilets will be provided for human waste disposal. Upon completion of operations, or as needed, the toilet holding tanks will be pumped and the contents thereof disposed of in the nearest, approved, sewage disposal facility.
- E. Garbage and other waste material - garbage, trash and other waste materials will be collected in a portable, self-contained and fully-enclosed trash cage during drilling and completion operations. Upon completion of operations (or as needed) the accumulated trash will be disposed of at an authorized sanitary landfill. No trash will be burned on location or placed in the reserve pit.
- F. Immediately after removal of the drilling rig, all debris and other waste materials not contained in the trash cage will be cleaned up and removed from the well location. No adverse materials will be left on the location. Any open pits will be fenced during the drilling operation and the fencing will be maintained until such time as the pits are backfilled.
- G. The reserve and/or production pit will be constructed on the existing location and will not be located in natural drainages where a flood hazard exists or surface runoff will destroy or damage the pit walls. All pits will be constructed so as not to leak, break, or allow the discharge of liquids therefrom.

## **8. Ancillary Facilities:**

None anticipated.

**9. Wellsite Layout:**

- A. Plat #1 shows the drill site layout as staked. Cross sections have been drafted to visualize the planned cuts and fills across the location. An average minimum of six (6) inches of topsoil will be stripped from the location (including areas of cut, fill, and/or subsoil storage) and stockpiled for future reclamation of the well site. Refer to Figure #1 for the location of the topsoil and subsoil stockpiles. The reserve pit will be on the Northwest side of location. The flare pit will be located downwind of the prevailing wind direction on the West near corner #4. Access will be from the East between corners #7 & #8.
- B. Plat #2 is a diagram showing the rig layout. No permanent living facilities are planned. There may be as many as three (3) trailers on location during drilling operation.
- C. A diagram showing the proposed production facility layout will be submitted to the Authorized Officer via Sundry Notice (Form 3160-5) for approval of subsequent operations.
- D. The reserve pit will be constructed so as to be capable of holding 12,000 bbls. of fluid.

The reserve pit will be lined with a 12 mil plastic liner, it will be torn and perforated after the pit dries and before backfilling of the reserve pit.

- E. Prior to the commencement of drilling operations, the reserve pit will be fenced on three (3) sides using 39-inch net wire with one strand of barbed wire on top of the net wire. The net wire will be no more than two inches above the ground. the barbed wire will be three inches above the net wire. total height of the fence will be at least 42-inches.
  - 1. Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.
  - 2. Standard steel, wood, or pipe posts shall be used between the corner braces. The maximum distance between any two (2) posts shall be no greater than sixteen (16) feet.
  - 3. All wire shall be stretched, by using a stretching device, before it is attached to the corner posts.

The fourth side of the reserve pit will be fenced immediately upon removal of the drilling rig and the fencing will be maintained until the pit is backfilled.

- F. Any hydrocarbons on the pit will be removed from the pit as soon as possible after drilling operations are completed.

#### 10. Plans for Reclamation of the Surface:

The B.L.M. will be contacted prior to commencement of any reclamation operations.

##### A. Production

1. Immediately upon well completion, the well location and surrounding area(s) will be cleared of all debris, materials, trash and junk not required for production.
2. Immediately upon well completion, any hydrocarbons on the pit shall be removed in accordance with 43 CFR 3162.7-1.
3. The plastic pit liner shall be torn and perforated before backfilling of the reserve pit.
4. Before any dirt work to restore the location takes place, the reserve pit will be completely dry and all cans, barrels, pipe, etc. will be removed.

Other waste and spoil materials will be disposed of immediately upon completion of drilling and workover activities.

5. The reserve pit and that portion of the location and access road not needed for production facilities/operations will be reclaimed within one hundred twenty (120) days from the date of well completion, weather permitting.
6. If the well is a producer, Equitable Resources Energy Company will, upgrade and maintain access roads as necessary to prevent soil erosion, and accommodate year round traffic. Reshape areas unnecessary to operations, distribute topsoil, disk and seed all disturbed areas outside the work area according to the recommended seed mixture. Perennial vegetation must be established. Additional work shall be required in case of seeding failures, etc.

If the well is abandoned/dry hole, Equitable Resources

Energy Company will, restore the access road and location to approximately the original contours. During reclamation of the site, push the fill material into cuts and up over the backslope. Leave no depressions that will trap water or form ponds. Distribute topsoil evenly over the location, and seed according to the above seed mixture. The access road and location shall be ripped or dished prior to seeding. Perennial vegetation must be established. Additional work shall be required in case of seeding failures, etc.

Seedbed will be prepared by disking, then roller packing following the natural contours. Seed will be drilled on contours at a depth no greater than one-half inch (1/2"). In areas that cannot be drilled, seed will be broadcast at double the seeding rate and harrowed into soil. Certified seed will be used whenever available.

Fall seeding will be completed after September 1 and prior to prolonged ground frost. Spring seeding, to be effective, will be completed after the frost has left the ground and prior to May 15th.

7. Upon completion of backfilling, leveling and recontouring, the stockpiled topsoil will be evenly spread over the reclaimed area(s). Prior to reseeding, all disturbed surfaces will be scarified and left with a rough surface. No depressions will be left that would trap water and form ponds. All disturbed surfaces will be reseeded with the seed mixture stipulated by the B.L.M.

Seed will be drilled on the contour to a approximate depth of one-half (1/2) inch. All seeding will be conducted after September 1 and prior to ground frost. Spring seeding will be done after the frost leaves the ground and no later than May 15. If the seeding is unsuccessful, Equitable Resources may be required to make subsequent seedings.

#### B. Dry Hole/Abandoned Location

1. On lands administered by the Bureau of Land Management, abandoned well sites, roads, or other disturbed areas will be restored to near their original condition. This procedure will include:

(c) ensuring revegetation of the disturbed areas to the specifications of the Bureau of Land Management at

the time of abandonment.

2. All disturbed surfaces will be recontoured to the approximate natural contours and reseeded according to BLM specifications. Reclamation of the well pad and access road will be performed as soon as practical after final abandonment and reseeded operations will be performed in the fall or spring following completion of reclamation operations.

#### **11. Surface Ownership:**

The well site and proposed access road are situated on surface lands administered by

Bureau of Land Management  
Vernal District Office  
Vernal, Utah

#### **12. Other Information:**

- A. Topographic and geologic features of the area (reference Topographic Map #A) are:

The proposed drill site is located in the Monument Butte oil field, which lies in a large basin formed by the Uinta Mountains to the North and the Bookcliff Mountains to the South. The site is located approximately 15 miles Northwest of the Green River, which is the major drainage for this area, and approximately 13 miles Southwest of Myton Utah.

This basin floor is interlaced with numerous canyons and ridges formed by the non-perennial streams of the area. The sides of these canyons are steep and ledges formed in sandstone, conglomerate deposits and shale are common in this area.

The geologic structures that are visible in the area are of the Uinta formation (Eocene Epoch) tertiary period and the cobblestone and younger alluvial deposits from the Quaternary period.

The soils in the semi-arid area of the Williams Fork Formation (Upper Cretaceous) and Wasatch Formation (Eocene) consist of light brownish gray clay (OL) to sand soil (SM-ML) type with poorly graded gravels.

Outcrops of sandstone ledges, conglomerate deposits and shale are common in this area.

The topsoils in the area range from a sandy clay (SM-ML) type soil to a clayey (OL) soil.

The majority of the numerous washes and draws in the area are of a non-perennial nature flowing during the early spring run-off and heavy rain storms of long duration which are rare as the normal annual rainfall in the area is only 8".

The flora of the area includes sagebrush, mountain mahogany, serviceberry, rabbit brush, greasewood, four-wing saltbush, Gambel scrub oak, willow, tamarack, shadscale, Spanish bayonet, indian rice grass, cheatgrass, wheatgrass, curly grass, crested wheatgrass, sweet clover, gum weed, foxtail, mustard, Canadian thistle, Russian thistle, Kochia, sunflowers and cacti.

The fauna of the area includes cattle, horses, elk, deer, coyotes, rabbits, rodents, lizards, bull snakes, rattle snakes, water snakes and horned toads. Birds of the area are ground sparrows, bluejays, bluebirds, magpies, ravens, raptors, morning doves, swallows, nighthawks, hummingbirds, and chukar.

- B. The surface ownership is Federal. The surface use is grazing and petroleum production.
- C.
  - 1. The closest live water is the Green River which is approximately 15 miles Southwest of the proposed site.
  - 2. There are no occupied dwellings in the immediate area
  - 3. An archaeological report ~~will be forwarded upon completion~~, is attached. See EXHIBIT "M".
  - 4. There are no reported restrictions or reservations noted on the oil and gas lease.
  - 5. A silt catchment dam will be constructed if determined necessary as a condition of approval.

**13. Lessee's or Operator's Representative:**

Balcron Oil  
a division of Equitable Resources Energy Company  
1601 Lewis Avenue  
P.O. Box 21017  
Billings, Montana 59104  
(8:00 a.m. to 5:00 p.m.)  
(406)259-7860  
FAX: (406)245-1361

Dave McCoskery, Drilling Engineer Home (406)248-3864

Dale Griffin, Home (303)824-3323

**14. certification:**

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that any statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Balcron Oil, a division of Equitable Resources Energy Company, and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

December 13, 1993

Date

Bobbie Schuman

Bobbie Schuman

Coordinator of Environmental  
and Regulatory Affairs

BALCRON OIL division of  
Equitable Resources Energy Co.



# Balcron Oil Well Prognosis

EXHIBIT "C"

Well Name	BALCRON MONUMENT FEDERAL #31-17	Exploratory		Control Well	PAIUTE #34-8
Location	NWNE SEC 17-T9S-R17E 660' FNL' 1980' FEL	Development	X	Operator	DMND SHMRK
County	DUCHESNE	Field	MON BUTTE	KB	5350
State	UTAH	Section	NWNE 8	Section	SWSE 8
Total Depth	5750	Township	9S	Township	9S
GL (Ung)	5359.8	Range	17E	Range	17E
EST. KB	5368				

Formation Tops	Prognosis		Sample Top		Control Well	High/Low		
Formation	Depth	Datum	Depth	Datum	Datum	Prog	Cntl	Deviation
UINTA	SURFACE							
GREEN RIVER	1416	3952			3922			
HORSEBENCH SS	2140	3228			3198			
2ND GARDEN GULCH	3745	1623			1593			
Y-2 SAND (PAY)	4022	1346			1316			
Y-3 SAND (PAY)	4071	1297			1267			
Y-5 SAND (PAY)	4308	1060			1030			
YELLOW MARKER	4365	1003			973			
DOUGLAS CREEK	4530	838			808			
R-2 SAND (PAY)	4607	761			731			
R-5 SAND (PAY)	4727	641			611			
2ND DOUGLAS CREEK	4766	602			572			
GREEN MARKER	4900	468			438			
G-3 SAND (PAY)	4978	390			360			
CARBONATE MARKER	5372	-4			-34			
B-1 SAND (PAY)	5407	-39			-68			
TD	5750							

<b>Samples</b>	<b>DST,s</b>	<b>Wellsite Geologist</b>
50' FROM 1400' TO 3850'	DST #1 NONE	Name: _____
10' FROM 3850' TO TD	DST #2 _____	From: _____ to: _____
	DST #3 _____	Address: _____
	DST #4 _____	Phone # _____ wk.
		_____ hm.
		Fax # _____
<b>Logs</b>	<b>Cores</b>	<b>Mud Logger/Hot Wire</b>
DLL FROM SURF CSG TO TD	Core #1 NONE	Company: _____
LDT/CNL FROM 3550' TO TD	Core #2 _____	Required: (Yes/No) YES
	Core #3 _____	Type: TWO MAN
	Core #4 _____	Logger: _____
		Phone # _____
		Fax # _____
<b>Comments:</b> _____		
<b>Report To:</b> 1st Name: DAVE BICKERSTAFF	Phone # (406) 259-7860	wk. 245-2261
2nd Name: KEVEN REINSCHMIDT	Phone # "	wk. 248-7026
<b>Prepared By:</b> KKR	12/8/93	wk. _____
		hm. _____

Equitable Resources Energy Company  
Balcron Oil Division

DRILLING PROGRAM

WELL NAME: Monument Butte Area  
LOCATION: Twn.9S Rge.16E & 17E  
COUNTY: Duchesne

PROSPECT/FIELD: Monument Butte  
STATE: Utah

TOTAL DEPTH: SEE APD COVER SHEET

HOLE SIZE INTERVAL

12 1/4" 0 to 260'  
7 7/8" 260 to T.D.

CASING	INTERVAL		CASING		
STRING TYPE	FROM	TO	SIZE	WEIGHT	GRADE
Surface Casing	0	260	8 5/8"	24 #/Ft	J-55
Production Casing	0	T.D.	5 1/2"	15.50#/Ft	J-55
(All Casing will be new, ST&C)					

CEMENT PROGRAM

Surface 150 sacks 75% Class "G" 25% Poz with 2% CaCl and 1/4 #/Sk Flocele.  
(Cement will be circulated to surface.)

Production 250 sacks Thifty Lite and 400 sacks 50-50 Poz mix.

PRELIMINARY  
DRILLING FLUID PROGRAM

TYPE	FROM	TO	WEIGHT	PLAS. VIS	YIELD POINT
Air and air mist	0	260	N.A.	N.A.	N.A.
Air/Air Mist/KCl Water	260	T.D.	8.7-8.9	N.A.	N.A.

depending on the drilling contractor either:

- Drilling will be with air from surface to as deep as hole conditions allow. 2% KCl fluid will be used for the remainder of the hole.
- Drilling will be done using 2% KCl water and gel.

COMMENTS

- No cores or DST's are planned.

DMM/8/27/93

BALCRON OIL CO.

Operator: BALCRON OIL	Well Name: MONUMENT BUTTE AREA
Project ID:	Location: Monument Butte, Utah

Design Parameters:

Mud weight ( 9.63 ppg) : 0.500 psi/ft  
 Shut in surface pressure : 2280 psi  
 Internal gradient (burst) : 0.100 psi/ft  
 Annular gradient (burst) : 0.000 psi/ft  
 Tensile load is determined using air weight  
 Service rating is "Sweet"

Design Factors:

Collapse : 1.125  
 Burst : 1.00  
 8 Round : 1.80 (J)  
 Buttress : 1.60 (J)  
 Body Yield : 1.50 (B)  
 Overpull : 0 lbs.

Length (feet)	Size (in.)	Weight (lb/ft)	Grade	Joint	Depth (feet)	Drift (in.)	Cost		
1	SFC TO TD	5-1/2"	15.50	J-55	ST&C	SEE APD COVER SHEET	4.825		
	Load (psi)	Collapse Strgth (psi)	S.F.	Burst Load (psi)	Min Int Strgth (psi)	Yield S.F.	Tension Load (kips)	Strgth (kips)	S.F.
1	2850	4040	1.418	2850	4810	1.69	88.35	202	2.29 J

Prepared by : McCoskery, Billings, MT  
 Date : 11-30-1992 (Revised 8/30/93)  
 Remarks :

The mud gradient and bottom hole pressures (for burst) are 0.500 psi/ft and 2,850 psi, respectively.

NOTE: The design factors used in this casing string design are as shown above. As a general guideline, Lone Star Steel recommends using minimum design factors of 1.125 - Collapse (with evacuated casing), 1.0 - Burst, 1.8 - 8 Round Tension, 1.6 - Buttress Tension, and 1.5 - Body Yield. Collapse strength under axial tension was calculated based on the Westcott, Dunlop and Kemler curve. Engineering responsibility for use of this design will be that of the purchaser. Costs for this design are based on a 1990 pricing model. (Version 1.0G)

EXHIBIT E

- A. Hazardous chemicals 10,000 pounds of which will most likely be used, produced, stored, transported, or disposed of in association with the proposed action of drilling, completing and producing this well:

We anticipate that none of the hazardous chemicals in quantities of 10,000 pounds or more will be associated with these operations.

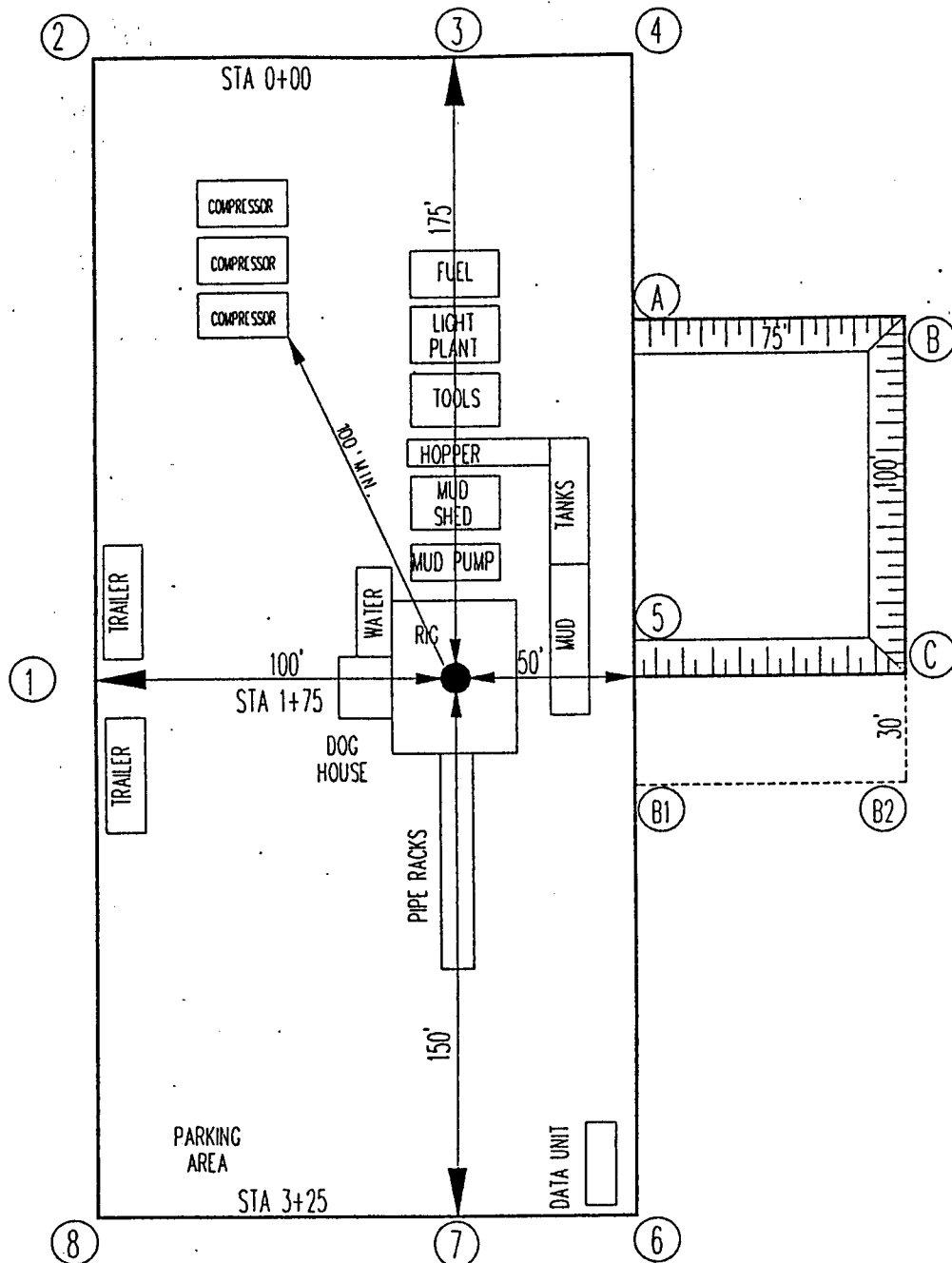
- B. Extremely hazardous substances threshold quantities (per Howard Cleavinger 11/30/93) of which will be used, produced, stored, transported, or disposed of in association with the proposed action of drilling, completing and producing this well:

We anticipate that none of the extremely hazardous substances in threshold quantities per 40 CFR 355 will be associated with these operations.

12/1/93  
Revised 12/7/93  
/rs

# EQUITABLE RESOURCES ENERGY CO.

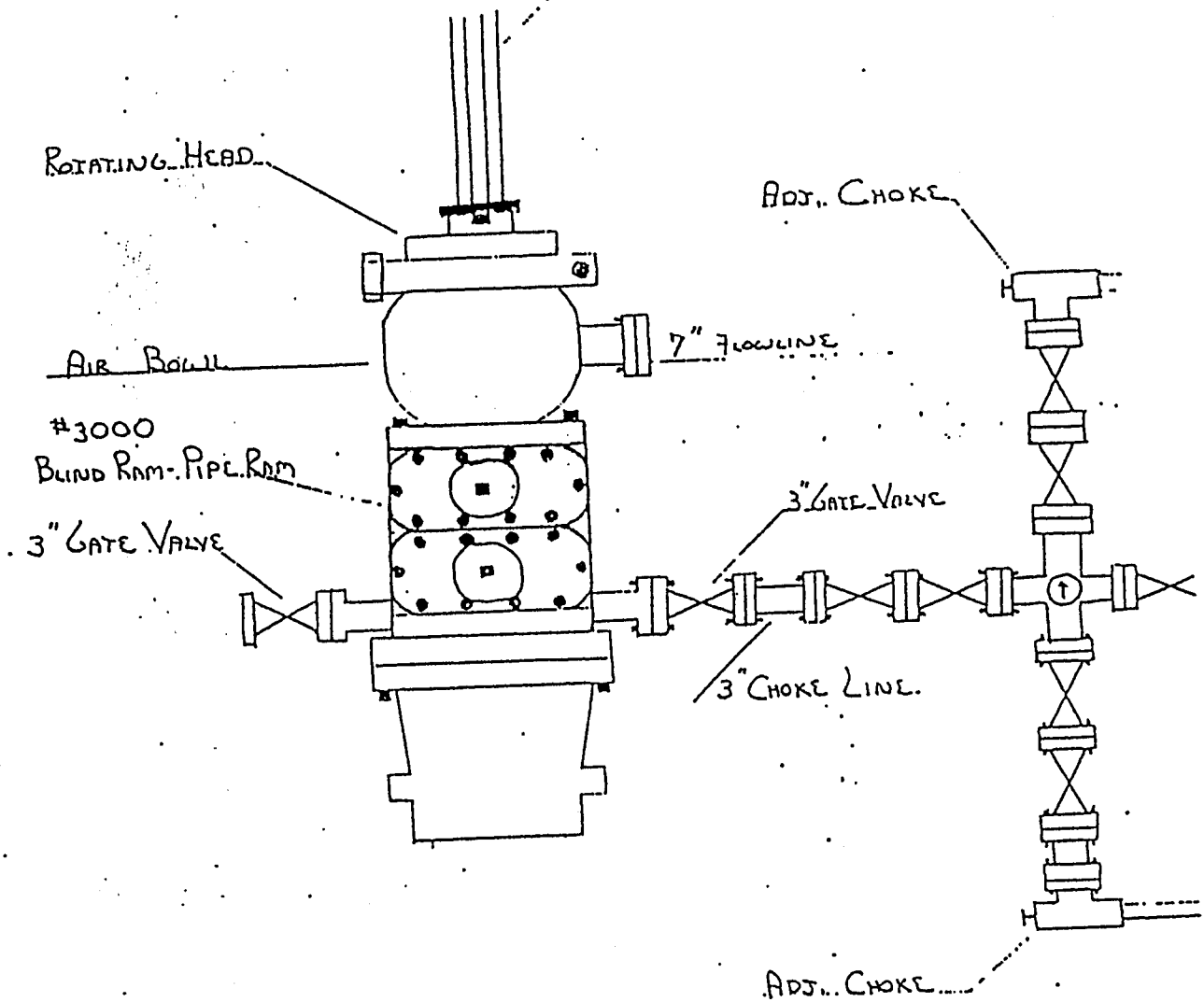
## WELLSITE LAYOUT



**TRI-STATE**  
**LAND SURVEYING, INC.**  
 38 WEST 100 NORTH, VERNAL, UTAH 84078  
 801-781-2501

UNION DRILLING RIG #17

Hex Kelly



#3000 Stack



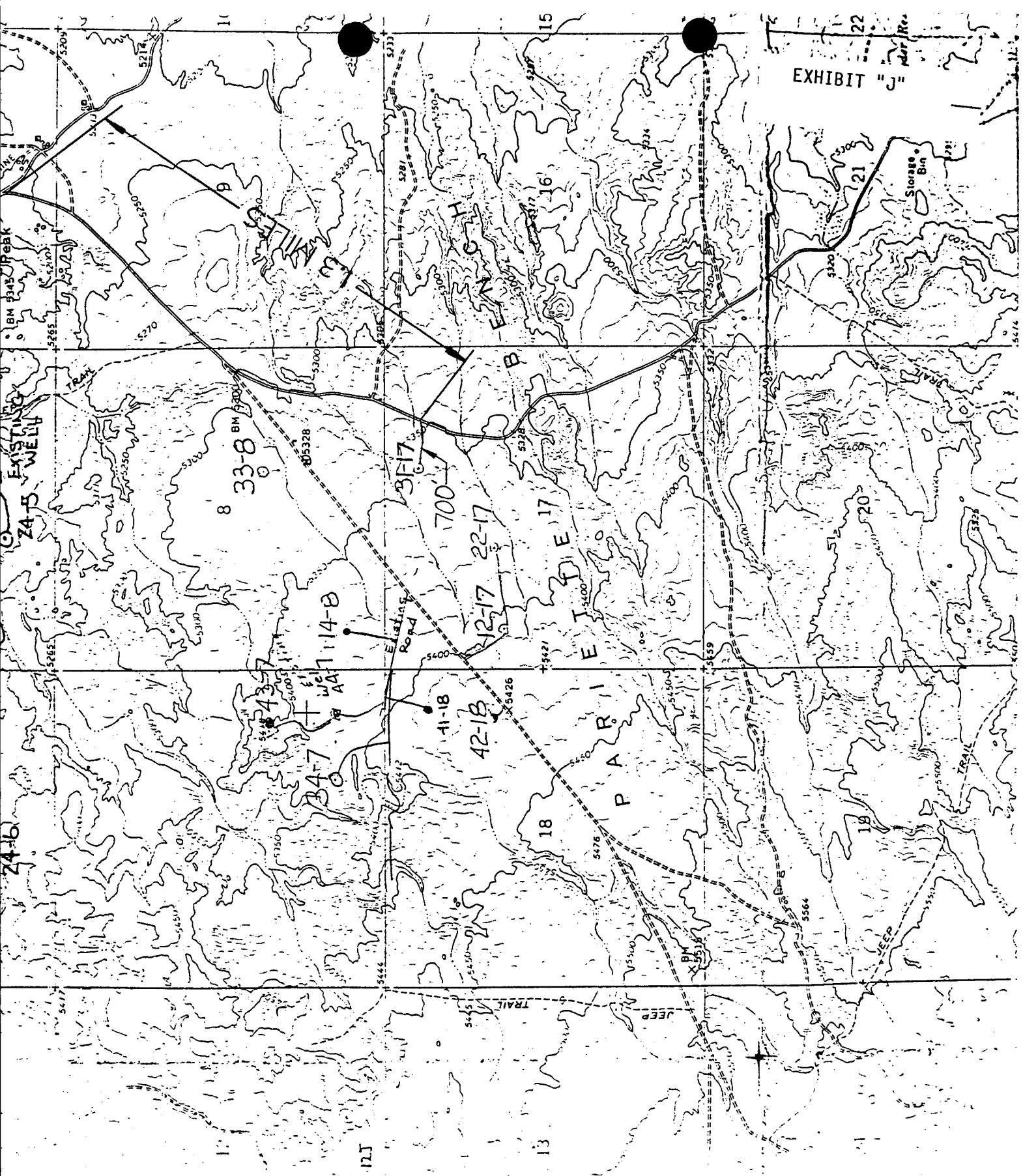
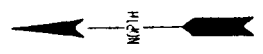


EXHIBIT "J"



EQUITABLE RESOURCES ENERGY CO.  
 MONUMENT FEDERAL #31-17  
 MAP

TRI-STATE  
 LAND SURVEYING, INC.  
 33 WEST 100 NORTH, JEROME, UTAH 84401  
 801-781-2501



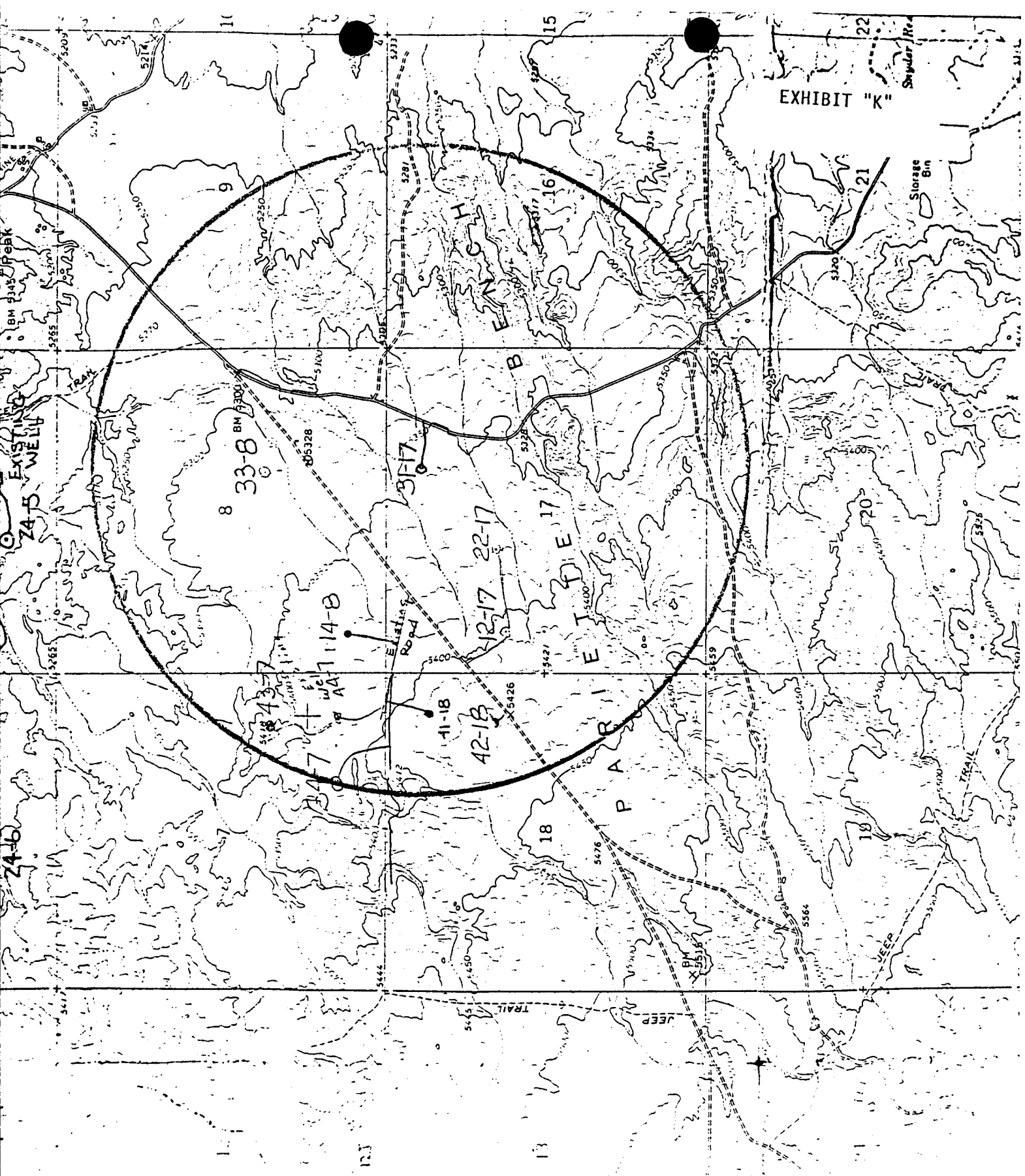


EXHIBIT "K"

Snyder Inc.

Storage Bin

EXISTING 24-5 WELL

EASTING ROAD

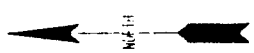
PAR

TRAIL

JEEP

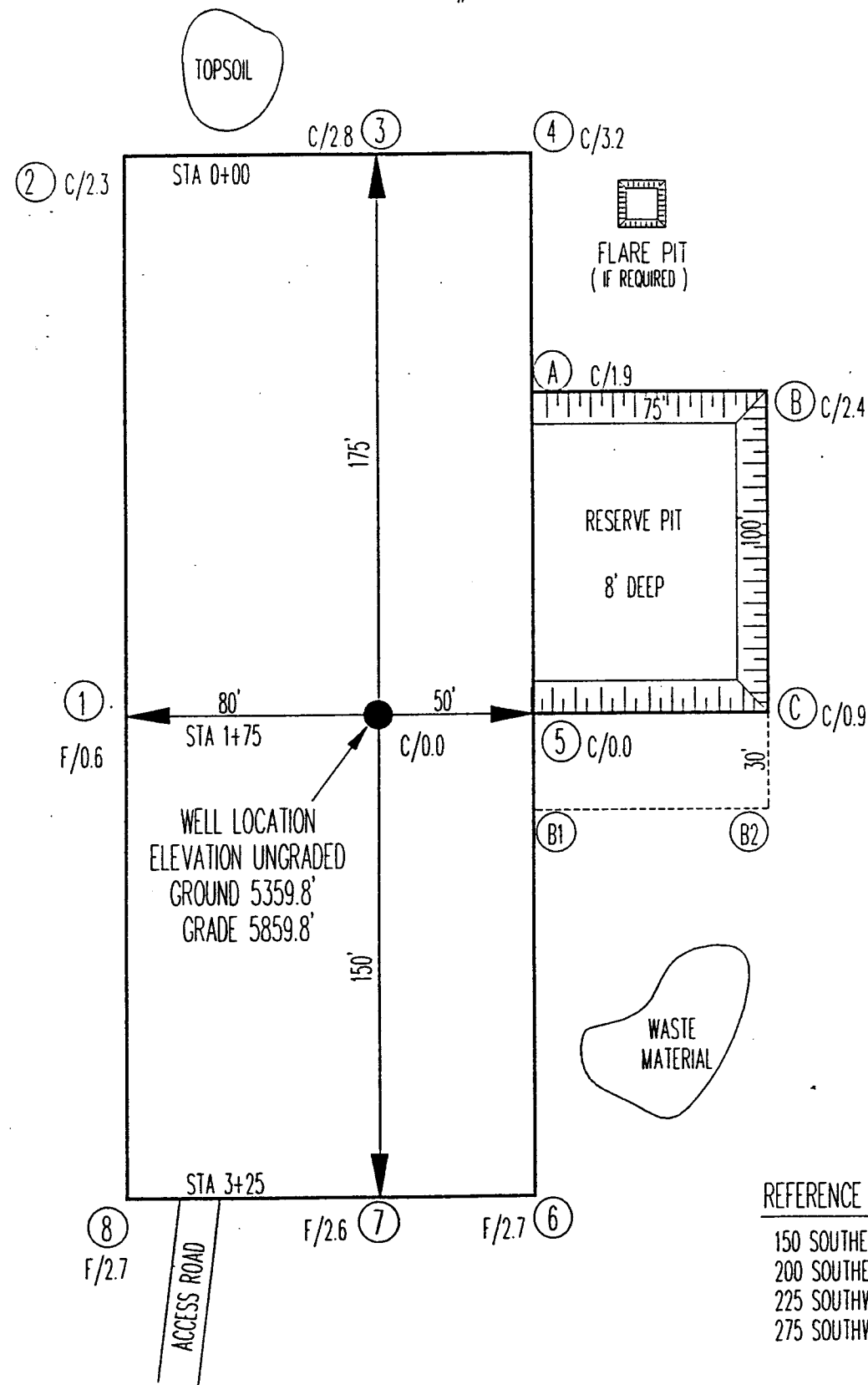
EQUITABLE RESOURCES ENERGY CO.  
MONUMENT FEDERAL #31-17  
MAP "C"

TRI-STATE  
LAND SURVEYING, INC.  
38 WEST 200 NORTH, VERNAL, UTAH 84401  
801-781-2501



# EQUITABLE RESOURCES ENERGY CO.

BALCON MONUMENT FEDERAL #31-17

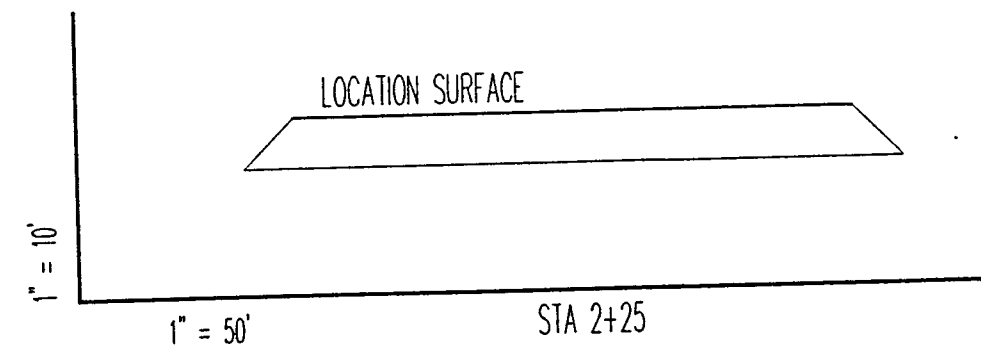
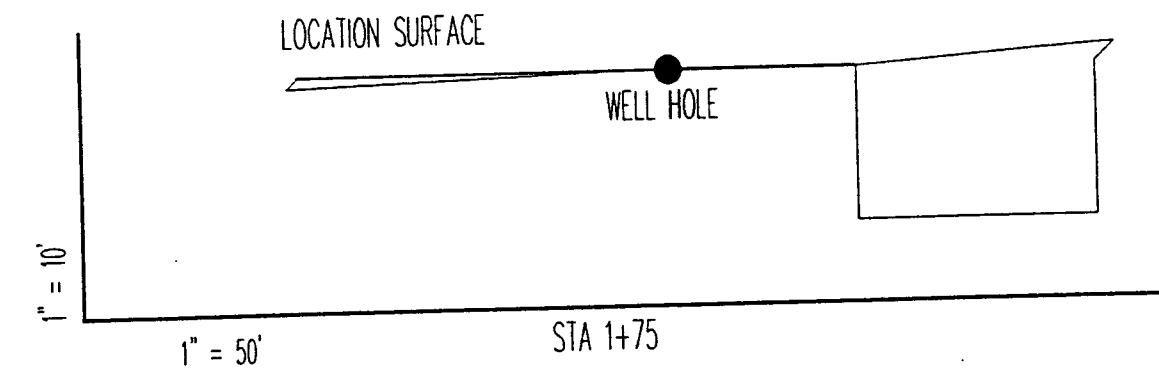
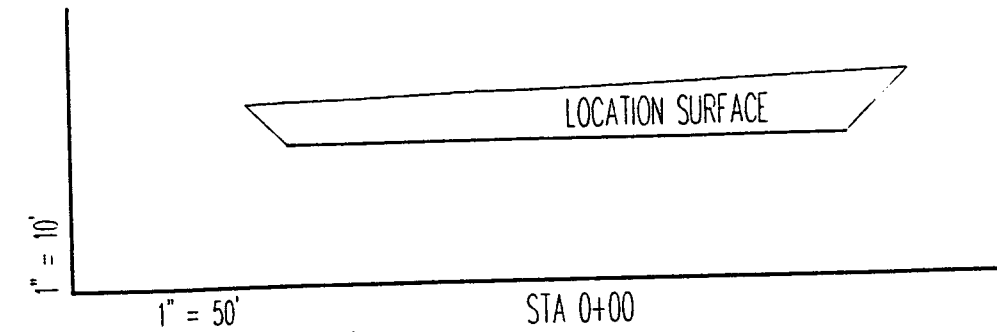
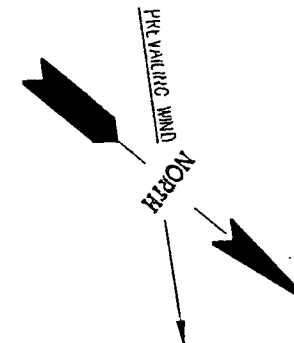


## REFERENCE POINTS

150 SOUTHEAST 5358.3'  
200 SOUTHEAST 5358.8'  
225 SOUTHWEST 5363.8'  
275 SOUTHWEST 5365.1'

## APPROXIMATE YARDAGE

CUT = 1687.3 Cu Yds  
FILL = 1190.3 Cu Yds  
PIT = 1826.4 Cu Yds



**TRI-STATE**  
LAND SURVEYING, INC.  
38 WEST 100 NORTH, VERNAL, UTAH 84078  
801-781-2501

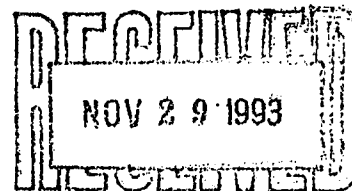


# ARCHEOLOGICAL - ENVIRONMENTAL RESEARCH CORPORATION

31-17

P. O. Box 853 Bountiful, Utah 84011-0853  
Tel: (801) 292-7061, 292-9668

November 22, 1993



*Subject:* CULTURAL RESOURCE EVALUATION OF SEVEN  
PROPOSED WELLS IN THE MONUMENT BUTTES AND  
PLEASANT VALLEY LOCALITIES OF DUCHESNE AND  
UINTAH COUNTIES, UTAH

*Project:* Balcron Oil -- 1993-1994 Development Program

*Project No.:* BLCR-93-11

*Permit No.:* Dept. of Interior -- UT-93-54937

*State Project No:* UT-93-AF-669b

*To:* Ms. Bobbie Schuman, Balcron Oil Division, P.O. Box 21017, Billings, Montana  
59104

Mr. David Little, District Manager, Bureau of Land Management, 170 South 500  
East, Vernal, Utah 84078

*Info:* Antiquities Section, Division of State History, 300 Rio Grande, Salt Lake City,  
Utah 84101

**CULTURAL RESOURCE EVALUATION  
OF SEVEN PROPOSED WELLS  
IN THE MONUMENT BUTTES AND  
PLEASANT VALLEY LOCALITIES  
OF DUCHESNE AND UINTAH COUNTIES, UTAH**

Report Prepared for Balcron Oil Company

Dept. of Interior Permit No.: UT-93-54937  
AERC Project 1415 (BLCR-93-11)

Utah State Project No.: UT-93-AF-669b

Principal Investigator  
F. Richard Hauck, Ph.D.

Authors of the Report  
F. Richard Hauck & Glade V Hadden



**ARCHEOLOGICAL-ENVIRONMENTAL RESEARCH  
CORPORATION (AERC)**

181 North 200 West, Suite 5  
P.O. Box 853  
Bountiful, Utah 84011-0853

November 22, 1993

## ABSTRACT

An intensive cultural resource evaluation has been conducted for Balcron Oil Company of seven proposed wells (Monument Federal Units 33-8, 12-17, 22-17, 31-17, 42-18, 43-7 and 41-26) and associated access routes situated on BLM administered lands located in the Monument Buttes locality of Duchesne County, Utah and the Pleasant Valley locality of Uintah County, Utah. This evaluation involved a total of 78.6 acres, of which 70 acres are associated with the seven well pads and an additional 8.6 acres associated with the various access road rights of way. These evaluations were conducted by Glade Hadden and Walter Lenington of AERC on November 16, 17 and 18, 1993.

No previously recorded significant or National Register eligible cultural resources will be adversely affected by the proposed developments.

One newly identified cultural resource activity locus was discovered and recorded during the examinations. 42UN 2084 is a non-significant prehistoric activity locus associated with well location 41-26. This site is a cobble quarry area located within the proposed well development zone.

One isolated artifact was recorded during the investigations. Isolate 1415G/X1 is a non-diagnostic chert core noted on the access road between Units 12-17 and 22-17. This artifact was recorded but not collected.

AERC recommends project clearance based on adherence to the stipulations noted in the final section of this report.

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## GENERAL INFORMATION

On November 16, 17 and 18, 1993, AERC archaeologists Glade Hadden and Walter Lenington conducted an intensive cultural resource evaluation for Balcron Oil Company of Billings, Montana. This examination involved seven proposed well locations (Monument Federal Units 33-8, 12-17, 22-17, 31-17, 42-18, 43-7 and 41-26) and associated access roads located in the Monument Buttes area, and in the Pleasant Valley area, south of Myton, Utah. Some 78.6 acres were examined which includes ca. 70 acres associated with the well pads and an additional 8.6 acres associated with the various 100 foot-wide access routes. This project is situated in the Monument Buttes locality of Duchesne County, Utah. The entire project area is situated on federal lands administered by the Bureau of Land Management, Vernal District Office, Diamond Mountain Resource Area.

The purpose of the field study and this report is to identify and document cultural site presence and assess National Register potential significance relative to established criteria (cf., Title 36 CFR 60.6). The proposed developments of these seven drilling locations require archaeological evaluations in compliance with U.C.A. 9-8-404, the Federal Antiquities Act of 1906, the Reservoir Salvage Act of 1960-as amended by P.L. 93-291, Section 106 of the National Historic Preservation Act of 1966-as amended, the National Environmental Policy Act of 1969, the Federal Land Policy and Management Act of 1979, the Archaeological Resources Protection Act of 1979, the Native American Religious Freedom Act of 1978, the Historic Preservation Act of 1980, and Executive Order 11593.

In addition to documenting cultural identity and significance, mitigation recommendations relative to the preservation of cultural data and materials can be directed to the Bureau of Land Management Vernal District Office, and to the Utah State Antiquities Section. This work was done under U.S. Department of Interior Permit for Utah UT-93-54937 which expires on January 31, 1994.

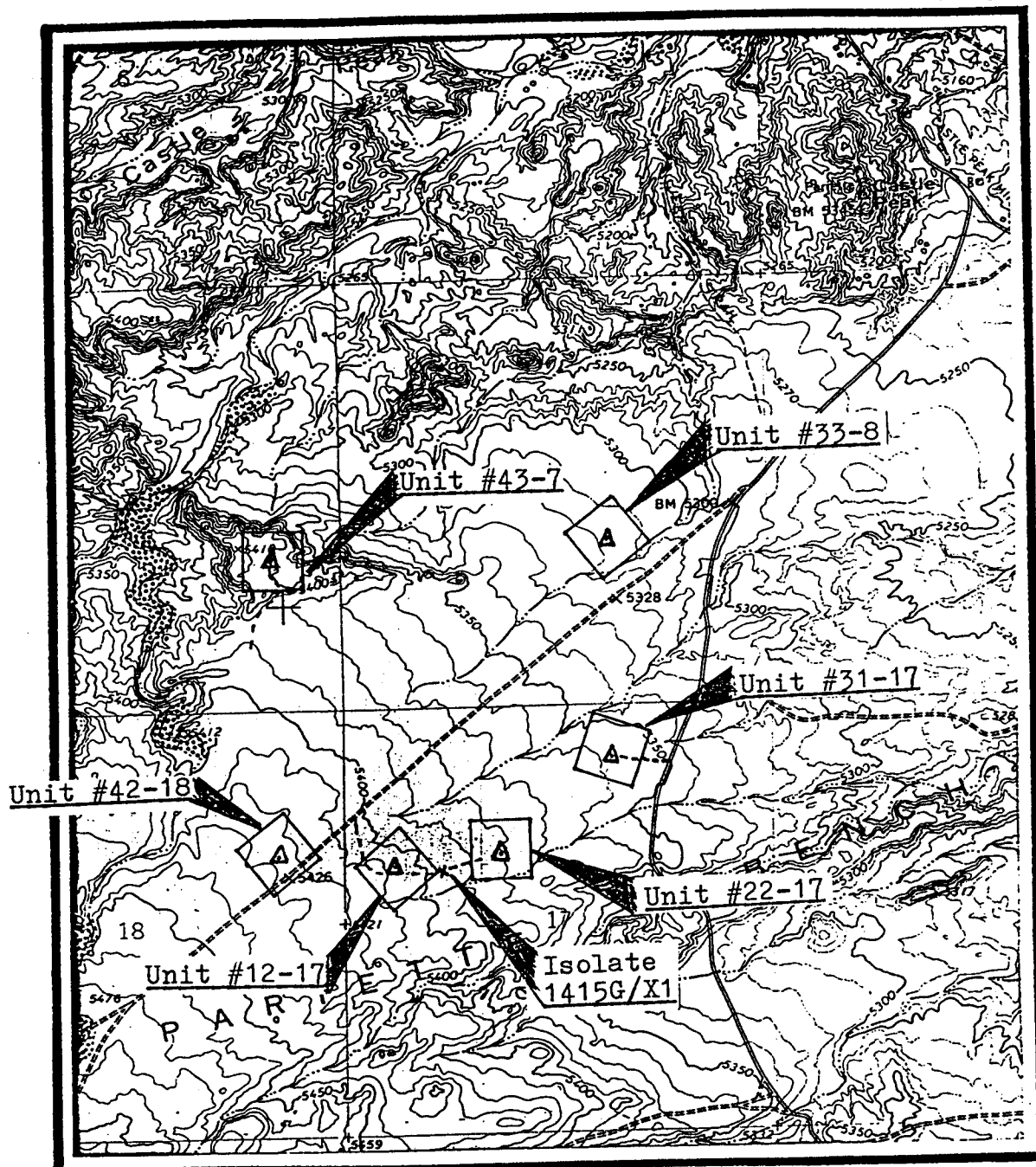
## Project Location

The project location is in the Monument Buttes locality of Duchesne County, Utah (situated on the Myton SE 7.5 minute topographic quad) and in the Pleasant Valley locality of Uintah County, Utah (situated on the Pariette Draw SW 7.5 minute topographic quad). The proposed drilling locations are situated in the following sections:

Balcron Monument Federal #33-8 is located in the NW - SE of Section 8, T. 9 So., R. 17 E. (see Map 1)





AERC



T. 9 So.  
R. 17 E.  
Meridian: SL  
Quad: Myton SE  
Utah

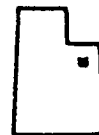
**MAP 1**  
Cultural Resource Survey of  
Proposed Balcron Well Units  
in the Monument Buttes  
Locality, Duchesne County

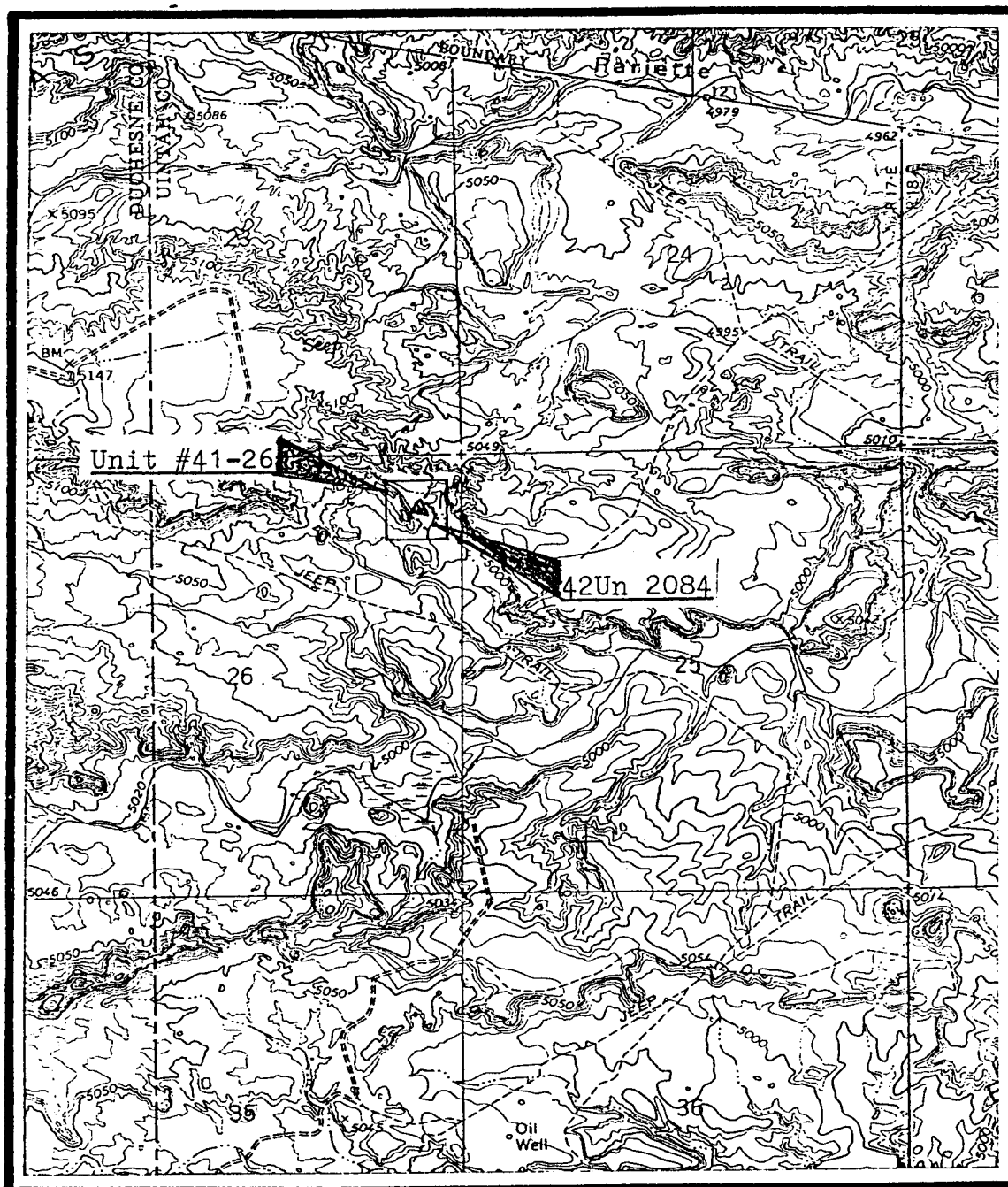
**Legend:**  
Well Location   
Access Route 

4  
N

**Project:** BLCR-93-11  
**Series:** Uinta Basin  
**Date:** 11/22/93

**Scale:** 1:64,000





T. 8 So.  
R. 17 E.  
Meridian: SL  
Quad: Pariette  
Draw SW  
Utah

4  
N

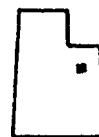
Project: BICR-93-11  
Series: Uinta Basin  
Date: 11/22/93

MAP 2  
Cultural Resource Survey of  
a Proposed Balcron Well  
in the Pleasant Valley  
Locality, Uintah County

Scale: 1:64,000

Legend:

Well Location  
Access Route  
Cultural Site



Balcron Monument Federal #12-17 is located in the SW - NW of Section 17, T. 9 So., R. 17 E. and includes ca. 600 feet of access road (see Map 1)

Balcron Monument Federal #22-17 is located in the SE - NW of Section 17, T. 9 So., R. 17 E. and includes ca. 500 feet of access road (see Map 1)

Balcron Monument Federal #31-17 is located in the NW - NE of Section 17, T. 9 So., R. 17 E. and includes ca. 350 feet of access road (see Map 1)

Balcron Monument Federal #42-18 is located in the SE - NE of Section 18, T. 9 So., R. 17 E. (see Map 1)

Balcron Monument Federal #43-7 is located in the NE - SE of Section 7, T. 9 So., R. 17 E. and includes ca. 1000 feet of access road (see Map 1)

Balcron Monument Federal #41-26 is located in the NE - NE of Section 26, T. 8 So., R. 17 E. and includes ca. 1300 feet of access road (see Map 2)

### Environmental Description

The project area is within the 5000 to 5500 foot elevation zone above sea level. Open rangeland terrain and eroded Eocene lakebed surfaces are associated with the project area.

The vegetation in the project area includes *Chrysothamnus spp.*, *Artemisia spp.*, *Eriogonum spp.*, *Sarcobatus vermiculatus*, *Ephedra viridis*, *Cercocarpus spp.*, *Atriplex canescens*, *Salix spp.*, *Typha spp.*, and a variety of grasses and sedges.

The geological associations within the project area consist of fluvial and lake deposits which correlate with the Uinta Formation which is of Tertiary age.

### PREVIOUS RESEARCH IN THE LOCALITY

#### File Search

A records search of the site files and maps at the Antiquities Section of the State Historic Preservation Office in Salt Lake City was conducted on November 19, 1993. A similar search was conducted in the Vernal District Office of the BLM on November 16, 1993. The National Register of Historic Places has been consulted and no registered historic or prehistoric properties will be affected by the proposed developments.

A variety of known cultural sites are situated in the Monument Buttes / Castle Peak Draw locality. Many of these prehistoric resources were identified and recorded by AERC during the Mapco River Bend survey (Norman and Hauck 1980). Other sites have been located and

recorded by AERC and other archaeological consultants during oil and gas exploration inventories.

### Prehistory and History of the Cultural Region

Currently available information indicates that the Northern Colorado Plateau Cultural Region has been occupied by a variety of cultures beginning perhaps as early as 10,000 B.C. These cultures, as identified by their material remains, demonstrate a cultural developmental process that begins with the earliest identified Paleoindian peoples (10,000 -- 7,000 B.C.) and extends through the Archaic (ca. 7,000 B.C. -- A.D. 300), and Formative (ca. A.D. 400 -- 1100) Stages, and the Late Prehistoric-Protohistoric periods (ca. A.D. 1200 -- 1850) to conclude in the Historic-Modern period which was initiated with the incursion of the Euro-American trappers, explorers, and settlers. Basically, each cultural stage -- with the exception of the Late Prehistoric hunting and gathering Shoshonean bands -- features a more complex life-way and social order than occurred during the earlier stage of development (Hauck 1991:53). For a more comprehensive treatment of the prehistory and history of this region see Archaeological Evaluations in the Northern Colorado Plateau Cultural Area (Hauck 1991).

### Site Potential in the Project Development Zone

Previous archaeological evaluations in the general project area have resulted in the identification and recording of a variety of cultural resource sites having eligibility for potential nomination to the National Register of Historic Places (NRHP). The majority of these sites are lithic scatters containing cobble reduction materials. Many of these quarry sites are of the "Tap and Test" variety, and extend for tens or hundreds of meters. Open occupations are also frequently being identified in this locality. Sites associated with the open rangeland generally appear to have been occupied during the Middle Plains Archaic Stage with occasional indications of Paleoindian activity based on the recovery of isolated Plano style projectile points. The north-south drainage canyons appear to contain the majority of Late Prehistoric (Numa) sites probably because those canyon floors were transportation corridors and convenient pastures for the Ute horse herds. Evidence of Formative Stage occupation, i.e., Fremont, is rarely observed in the rangeland environment but is common within the Green River and White River canyons and their primary tributary canyons.

Site density in certain portions of the region appears to range from one to four sites per section. These densities increase in the canyon bottoms due to Ute rock art loci. Recent evaluations indicate that the site densities may reach 8 to 12 sites per section in certain localities on the upper benches which were apparently favored for hunting, lithic resource procurement, and camping. Prehistoric sites on the rangeland benches appear to be associated with water courses and aeolian deposits.

## FIELD EVALUATIONS

### Methodology

Intensive evaluations consisted of the archaeologists walking a series of 10 to 20 meter-wide transects across a 10 acre area covering each well pad. In addition, access routes were surveyed by the archaeologists walking a pair of 10 to 15 meter wide transects on each side of the flagged access route right of way. Thus, a 30 meter-wide or 100 foot-wide corridor (ca. 8.6 acres) was examined for the total ca. 3750 foot length of proposed access road, in addition to the seventy acres inventoried on the well pads for a total of 78.6 acres.

Observation of cultural materials results in intensive examinations to determine the nature of the resource (isolate or activity locus). The analysis of each specific cultural site results in its subsequently being sketched, photographed, and appropriately recorded on standard IMACS forms. Cultural sites are then evaluated for significance utilizing the standards described below and mitigation recommendations are considered as a means of preserving significant resources which may be situated within the development zone.

### Site Significance Criteria

Prehistoric and historic cultural sites which can be considered as eligible for nomination to the National Register of Historic Places have been outlined as follows in the National Register's Criteria for Evaluation as established in Title 36 CFR 60.6:

The quality of significance in American ... archaeology ... and culture is present in ... sites ... that possess integrity of location, design, setting, materials, workmanship, feeling, and association and:

- a. That are associated with events that have made a significant contribution to the broad patterns of our history; or
- b. that are associated with the lives of persons significant in our past; or
- c. that embody the distinctive characteristics of a type, period, or method of construction ... ; or
- d. that have yielded, or may be likely to yield, information important in prehistory or history.

In addition to satisfying one or more of these general conditions, a significant cultural resource site in Utah will generally be considered as being eligible for inclusion in the National Register if it should advance our current state of knowledge relating to chronology, cultural relationships, origins, and cultural life ways of prehistoric or historic groups in the area.

In a final review of any site's cultural significance, the site must possess integrity and at least one of the above criteria to be considered eligible for nomination to the National Record of Historic Places.

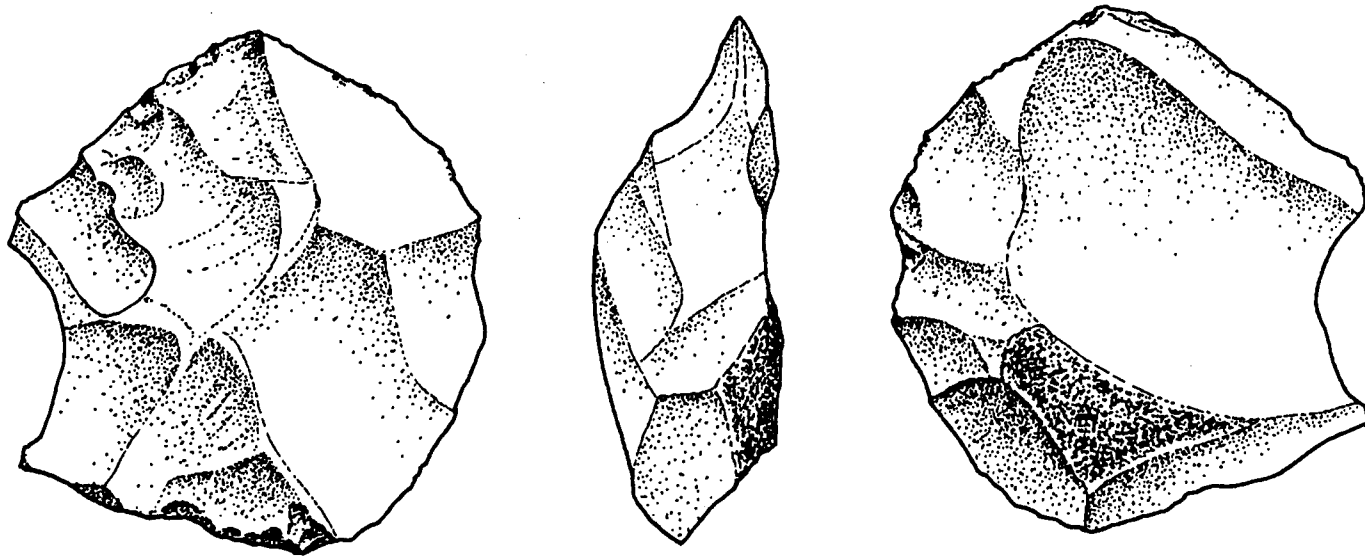
## Results of the Inventory

One prehistoric cultural resource activity locus was observed and recorded during the archaeological evaluations. Site 42UN 2084 (see map 2) is a 50 x 120 meter lithic surface quarry area. Isolated flakes are located up to 500 meters from the main locus. Artifacts are composed mainly of Parachute Creek Chert cores. Two biface blanks and two utilized flakes were also found. This non-significant site is of a type commonly found in the area. Remnant lag gravel deposits with many chert and quartzite cobbles present cover extensive areas in this locality, and most such "Desert Pavement" sites are the location for "Tap and Test" quarry operations. No buried deposits are present and artifact context is questionable due to sheet wash erosion. The site does not qualify under criterion d of Title 36 CFR 60.6.

No previously identified and recorded significant or National Register sites were noted or recorded during the survey.

No paleontological loci were observed or recorded during the evaluations.

One isolated artifact was recorded during the evaluations. Isolate 1415G/X1 (see Figure one) consists of a single Parachute Creek chert core located along the access route connecting Units 12-17 and 22-17. This artifact was not collected.



WPL © 1993

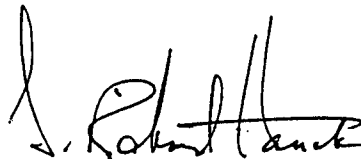
Isolated Artifact 1415G/X1  
(actual size)

## CONCLUSION AND RECOMMENDATIONS

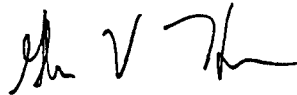
No known significant cultural or paleontological resources will be adversely impacted during the development and operation of Balcron Units 33-8, 12-17, 22-17, 31-17, 42-18, 43-7 and 41-26 as evaluated during this project.

AERC recommends that a cultural resource clearance be granted to Balcron Oil Company relative to the developments of these seven proposed drilling locations based upon adherence to the following stipulations:

1. All vehicular traffic, personnel movement, construction and restoration operations should be confined to the flagged areas and corridors examined as referenced in this report, and to the existing roadways.
2. All personnel should refrain from collecting artifacts and from disturbing any significant cultural resources in the area.
3. The authorized official should be consulted should cultural remains from subsurface deposits be exposed during construction work or if the need arises to relocate or otherwise alter the location of the exploration area.



F. Richard Hauck, Ph.D.  
President and Principal  
Investigator



Glade V Hadden  
Field Supervisor

## REFERENCES

Hadden, Glade V and F. R. Hauck

- 1993a Cultural Resource Evaluation of Seven Proposed Well Locations in the Monument Buttes Locality of Duchesne County, Utah. Report prepared for Balcron Oil Company, BLCR-93-4, Archaeological-Environmental Research Corporation, Bountiful.
- 1993b Cultural Resource Evaluation of Four Proposed Well Locations in the Monument Buttes Locality of Duchesne County, Utah. Report prepared for Balcron Oil Company, BLCR-93-5, Archaeological-Environmental Research Corporation, Bountiful.
- 1993c Cultural Resource Evaluation of Eight Proposed Well Locations in the Monument Buttes Locality of Duchesne County, Utah. Report prepared for Balcron Oil Company, BLCR-93-9, Archaeological-Environmental Research Corporation, Bountiful.
- 1993d Cultural Resource Evaluation of Four Proposed Well Locations in the Monument Buttes and Pleasant Valley Localities of Duchesne and Uintah Counties, Utah. Report prepared for Balcron Oil Company, BLCR-93-10, Archaeological-Environmental Research Corporation, Bountiful.

Hauck, F. Richard

- 1981 Cultural Resource Inventory of Nine Proposed Well Locations and Access Roads in the Coyote Basin Locality of Uintah County, Utah, and in the Castle Peak Draw Locality of Duchesne County, Utah. Report prepared for Diamond Shamrock, DS-81-2, Archeological-Environmental Research Corporation, Bountiful.
- 1991 Archaeological Evaluations on the Northern Colorado Plateau Cultural Area, AERC Paper No. 45, Archeological-Environmental Research Corporation, Bountiful.
- 1992a Cultural Resource Evaluations of Four Proposed Well Locations in the Castle Peak Draw Locality of Duchesne County, Utah. Report prepared for Balcron Oil Company, BLCR-92-2, Archeological-Environmental Research Corporation, Bountiful.



- 1992b Addendum to Cultural Resource Evaluations of Four Proposed Well Locations in the Castle Peak Draw Locality of Duchesne County, Utah. Report prepared for Balcron Oil Company, BLCR-92-4, Archeological-Environmental Research Corporation, Bountiful.
- 1992c Cultural Resource Evaluations of Seven Proposed Well Locations in the Castle Peak Draw Locality of Duchesne County, Utah. Report prepared for Balcron Oil Company, BLCR-92-5, Archeological-Environmental Research Corporation, Bountiful.
- 1992d Cultural Resource Evaluation of a Proposed Water Pipeline Corridor in the Castle Peak Draw Locality of Duchesne County, Utah. Report prepared for Balcron Oil Company, BLCR-92-6, Archeological-Environmental Research Corporation, Bountiful.
- 1992e Cultural Resource Evaluation of Seven Proposed Well Locations in the Castle Peak Draw Locality of Duchesne County, Utah. Report prepared for Balcron Oil Company, BLCR-92-8, Archeological-Environmental Research Corporation, Bountiful.
- 1993a Cultural Resource Evaluation of Nine Proposed Well Locations in the Castle Peak Draw Locality of Duchesne and Uintah Counties, Utah. Report prepared for Balcron Oil Company, BLCR-93-1, Archeological-Environmental Research Corporation, Bountiful.
- 1993b Addendum to Cultural Resource Evaluation of Nine Proposed Well Locations in the Castle Peak Draw Locality of Duchesne and Uintah Counties, Utah. Report prepared for Balcron Oil Company, BLCR-93-2, Archeological-Environmental Research Corporation, Bountiful.
- 1993c Cultural Resource Evaluation of a Pipeline Corridor Situated in the Castle Peak Draw Locality of Duchesne County, Utah. Report prepared for Balcron Oil Company, BLCR-93-3, Archeological-Environmental Research Corporation, Bountiful.

Norman, V. Garth and F.R. Hauck

- 1980 Final Report on the Mapco River Bend Cultural Mitigation Study. AERC Paper No. 18, of the Archeological-Environmental Research Corporation, Bountiful.

Equitable Resources Energy Company  
 Balcron Monument Federal 31-17  
 Proposed Production Facility Diagram

EXHIBIT "N"

Balcron Monument Federal 31-17  
 NW NE Sec. 17, T9S, R17E  
 Duchesne County, Utah  
 Federal Lease #UTU-72106  
 660' FNL, 1980' FEL

NORTH

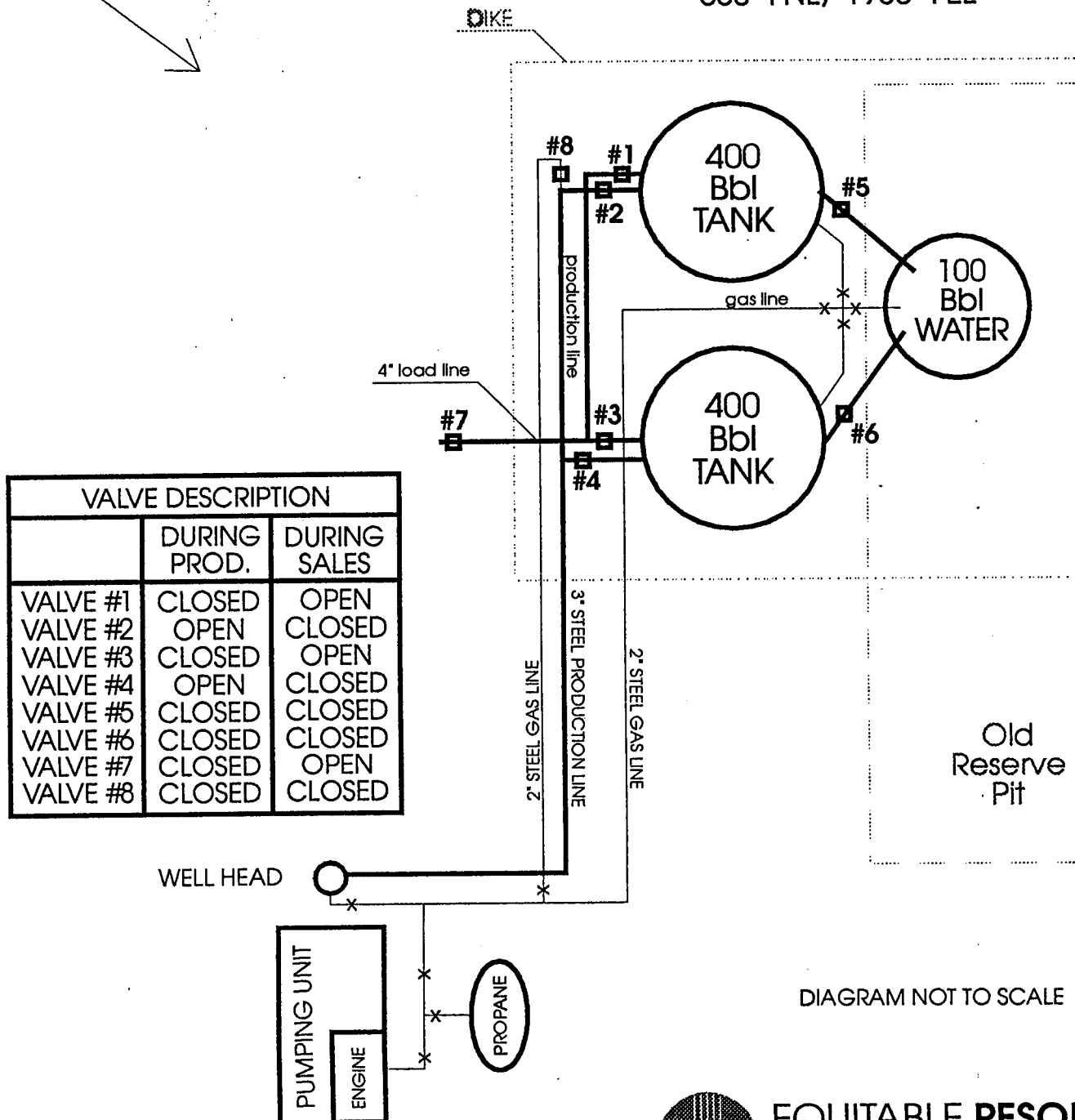


DIAGRAM NOT TO SCALE



**EQUITABLE RESOURCES  
 ENERGY COMPANY**  
 BALCRON OIL DIVISION

1601 Lewis Avenue  
 P.O. Box 21017  
 Billings, MT 59104-1017  
 (406) 259-7860

ACCESS  
 ROAD

WORKSHEET  
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 12/14/93

API NO. ASSIGNED: 43-013-31428

WELL NAME: BALCRON MONUMENT FEDERAL 31-17  
OPERATOR: EQUITABLE RESOURCES (N9890)

PROPOSED LOCATION:

NWNE 17 - T09S - R17E  
SURFACE: 0660-FNL-1980-FEL  
BOTTOM: 0660-FNL-1980-FEL  
DUCHESNE COUNTY  
MONUMENT BUTTE FIELD (105)

LEASE TYPE: FED  
LEASE NUMBER: UTU-72106

INSPECT LOCATION BY: / /

TECH REVIEW	Initials	Date
Engineering		
Geology		
Surface		

RECEIVED AND/OR REVIEWED:

Y Plat  
Y Bond FEDERAL 0410  
(Number 55 47188 N.H. 100.00)  
H Potash (Y/N)  
H Oil shale (Y/N)  
N Water permit  
(Number BY SUMMARY)  
N RDCC Review (Y/N)  
(Date: \_\_\_\_\_)

LOCATION AND SITING:

\_\_\_ R649-2-3. Unit: \_\_\_\_\_  
☒ R649-3-2. General.  
\_\_\_ R649-3-3. Exception.  
\_\_\_ Drilling Unit.  
\_\_\_ Board Cause no: \_\_\_\_\_  
\_\_\_ Date: \_\_\_\_\_

COMMENTS: WELL IS NOT IN A SECONDARY RECOVERY UNIT

(INFILL LOCATION)

STIPULATIONS: 1. WATER SOURCE & PERMIT WILL BE NOTIFIED BY

SUMMARY FORM TO SPUR

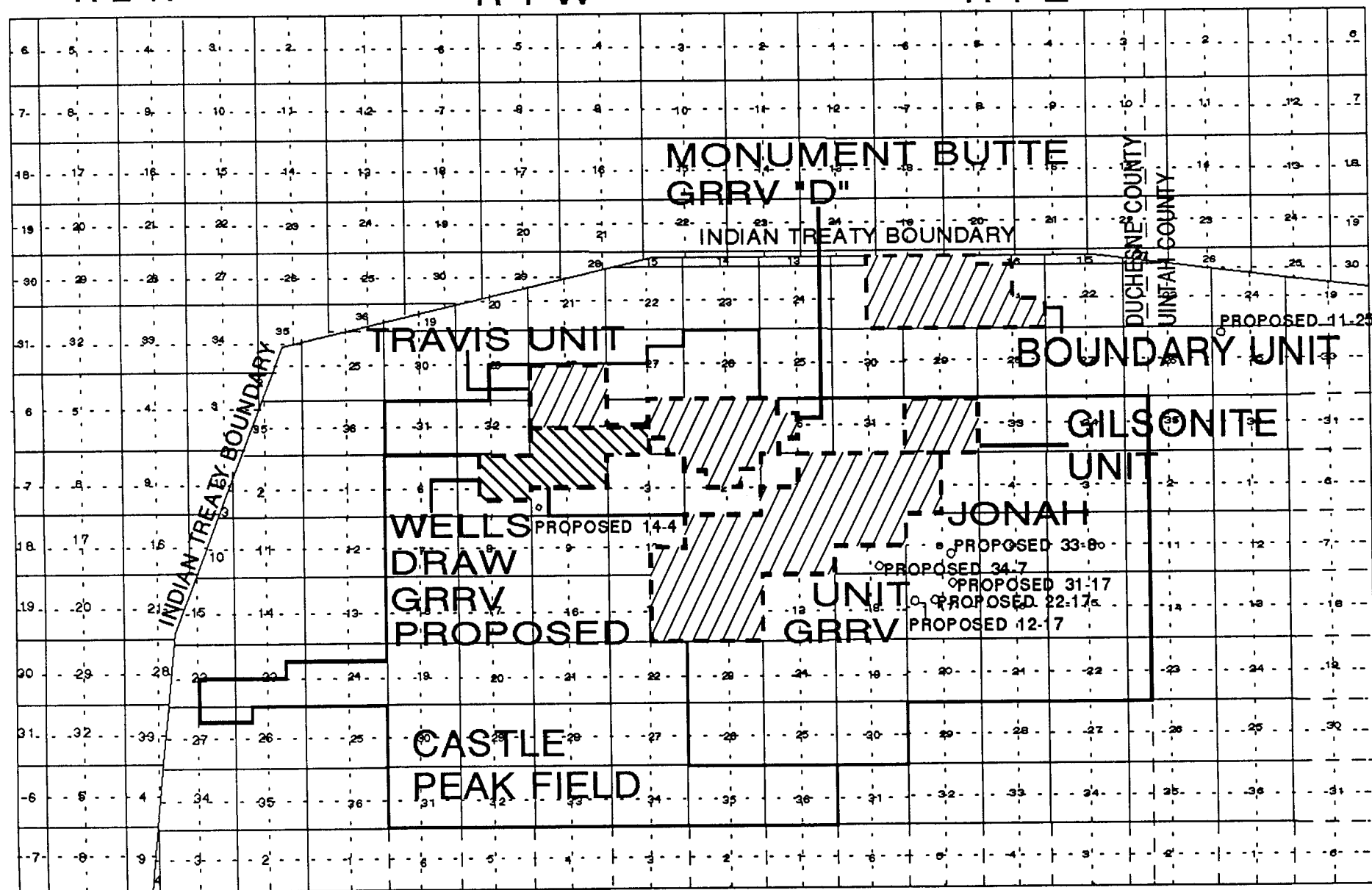
CONFIDENTIAL  
PERIOD  
EXPIRED  
ON 7-13-95

# MONUMENT BUTTE WATER FLOOD UNITS

R 2 W

R 1 W

R 1 E



R 15 E

R 16 E

R 17 E

----- WATER FLOOD BOUNDARY

—— FIELD BOUNDARY



**EQUITABLE RESOURCES  
ENERGY COMPANY**

**BALCRON OIL DIVISION**

1601 Lewis Avenue  
P.O. Box 21017  
Billings, MT 59104

Office: (406) 259-7860  
FAX: (406) 245-1365 ☐  
FAX: (406) 245-1361 ☒

RECEIVED

DEC 17 1993

DIVISION OF  
OIL, GAS & MINING

December 15, 1993

**CONFIDENTIAL**

Bureau of Land Management  
170 South 500 East  
Vernal, UT 84078

Gentlemen:

Enclosed are Paleontology Reports on the wellpad location and access road for the following wells:

Balcron Monument Federal #11-25  
Balcron Monument Federal #12-17  
Balcron Monument Federal #14-4  
Balcron Monument Federal #22-17  
Balcron Monument Federal #31-17 43 013 31428  
Balcron Monument Federal #33-8  
Balcron Monument Federal #34-7  
Balcron Monument Federal #41-26  
Balcron Monument Federal #42-18  
Balcron Monument Federal #43-7

Applications for Permit to Drill these wells have already been submitted.

Sincerely,

*Bobbie Schuman*

Bobbie Schuman  
Coordinator of Operations,  
Environmental and Regulatory Affairs

/rs

Enclosures

cc: Utah Division of Oil, Gas and Mining

**BALCRON OIL**

**Balcron Monument Federal #31-17**

**NW NE Section 17, T9S, R17E, SLB&M**

**Duchesne County, Utah**

**PALEONTOLOGY REPORT**

**WELLPAD LOCATION AND ACCESS ROAD**

**BY**

**ALDEN H. HAMBLIN  
PALEONTOLOGIST  
235 EAST MAIN  
VERNAL, UTAH 84078**

**DECEMBER 8, 1993**

RESULTS OF PALEONTOLOGY SURVEY AT BALCRON MONUMENT BUTTE FEDERAL #31-17

Description of Geology and Topography-

This well is located 11 miles south of Myton, Utah. It sits toward the west end of Pariette Bench. The immediate area is flat and covered with sandy alluvium and small rock fragments. Drainage is gentle to the southeast.

All rock outcrops in the general area are of the Upper Eocene Uinta Formation, known for its fossil vertebrate fauna of mammals, turtles, crocodilians, and occasional fish remains and plant impressions.

There are no exposures of bed rock (Uinta Formation) in the area of the wellpad or proposed access road.

Paleontological material found -

No fossils were found on the wellpad location or access road.

Recommendations-

No other recommendations are made for this location.

Allen H. Franklin

Date December 9, 1993



**State of Utah**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt  
Governor

Ted Stewart  
Executive Director

James W. Carter  
Division Director

355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
801-538-5340  
801-359-3940 (Fax)  
801-538-5319 (TDD)

December 20, 1993

Equitable Resources Energy Company  
P.O. Box 21017  
Billings, Montana 59104

Re: Balcron Monument Federal #31-17 Well, 660' FNL, 1980' FEL, NW NE, Sec. 17,  
T. 9 S., R. 17 E., Duchesne County, Utah

Gentlemen:

Pursuant to Utah Admin. R. 649-3-2, Location and Siting of Wells and Utah Admin. R. 649-3-4, Permitting of Wells to be Drilled, Deepened or Plugged-Back, approval to drill the referenced well is hereby granted.

In addition, the following specific actions are necessary to fully comply with this approval:

1. Compliance with the requirements of Utah Admin. R. 649-1 et seq., Oil and Gas Conservation General Rules.
2. Notification within 24 hours after commencing drilling operations.
3. Submittal of Entity Action Form, Form 6, within five working days following commencement of drilling operations and whenever a change in operations or interests necessitates an entity status change.
4. Submittal of the Report of Water Encountered During Drilling, Form 7.
5. Prompt notification prior to commencing operations, if necessary, to plug and abandon the well. Notify Frank R. Matthews, Petroleum Engineer, (Office) (801)538-5340, (Home) (801)476-8613, or Mike Hebertson, Oil and Gas Field Specialist, (Home) (801)269-9212.
6. Compliance with the requirements of Utah Admin. R. 649-3-20, Gas Flaring or Venting, if the well is completed for production.

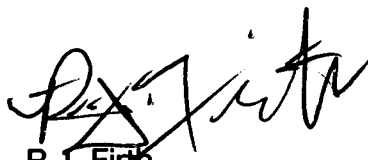




Page 2  
Equitable Resources Energy Company  
Balcron Monument Federal #31-17 Well  
December 20, 1993

This approval shall expire one year after date of issuance unless substantial and continuous operation is underway or a request for an extension is made prior to the approval expiration date. The API number assigned to this well is 43-013-31428.

Sincerely,

A handwritten signature in black ink, appearing to read "R.J. Firth", written over a horizontal line.

R.J. Firth  
Associate Director, Oil and Gas

Idc  
Enclosures  
cc: Duchesne County Assessor  
Bureau of Land Management, Vernal  
WOI1

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED  
SUBMIT TO THE BLM  
Other instructions on  
reverse side

Form approved.  
Budget Bureau No. 1004-0136  
Expires August 31, 1985

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL ☒ DEEPEN ☐ PLUG BACK ☐

b. TYPE OF WELL

OIL WELL ☒ GAS WELL ☐ OTHER ☐

SINGLE ZONE ☐ MULTIPLE ZONE ☐

2. NAME OF OPERATOR

EQUITABLE RESOURCES ENERGY COMPANY, Balcron Oil

3. ADDRESS OF OPERATOR

P.O. Box 21017; Billings, MT 59104

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

At surface 660' FNL, 1980' FEL NW NE Sec. 17, T9S, R17E

At proposed prod. zone

43-013-31428

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

From Myton, Utah, approximately 16 miles southwest.

10. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest dril. unit line, if any)

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.

16. NO. OF ACRES IN LEASE

19. PROPOSED DEPTH 6,000'

17. NO. OF ACRES ASSIGNED TO THIS WELL

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

GL 5359.8'

22. APPROX. DATE WORK WILL START\* Upon APD approval

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
		See attached		

EXHIBITS ATTACHED

"A" PROPOSED DRILLING PROGRAM  
"B" PROPOSED SURFACE USE PROGRAM  
"C" GEOLOGIC PROGNOSIS  
"D" DRILLING PROGRAM/CASING DESIGN  
"E" HAZMAT DECLARATION  
"F" SURVEY PLAT  
"G" RIG LAYOUT

"H" BOPE DIAGRAM  
"I" EXISTING ROADS (Map A)  
"J" PLANNED ACCESS (Map B)  
"K" EXISTING WELLS (Map C)  
"L" CUT & FILL DIAGRAM  
"M" ARCHEOLOGY REPORT  
"N" PROPOSED PRODUCTION FACILITY DIAGRAM

RECEIVED

DEC 14 1993

SELF CERTIFICATION: I hereby certify that I am authorized, by proper lease interest owner, to conduct these operations associated with the application. Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Equitable Resources Energy Company as principal and Safeco Insurance Company of America as surety under BLM Bond No. MT-0576 (Nationwide Oil & Gas Bond #5547188) who will be responsible for compliance with all of the terms and conditions of that portion of the lease associated with this application.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED Bobbie Schuman

TITLE Coordinator of Environmental and Regulatory Affairs

DATE December 13, 1993

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

ASSISTANT DISTRICT  
MANAGER MINERALS

FEB 02 1994

APPROVED BY [Signature]  
CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

NOTICE OF APPROVAL

\*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**CONDITIONS OF APPROVAL**  
**APPLICATION FOR PERMIT TO DRILL**

Company/Operator: Equitable Resources Energy Company

Well Name & Number: Monument Federal 31-17

API Number: 43-047-31428

Lease Number: U-72106

Location: NWNE Sec. 17 T. 9S R. 17E

**NOTIFICATION REQUIREMENTS**

- |                                 |   |   |
|---------------------------------|---|---|
| Location Construction           | - | at least forty-eight (48) hours prior to construction of location and access roads.   |
| Location Completion             | - | prior to moving on the drilling rig.  |
| Spud Notice                     | - | at least twenty-four (24) hours prior to spudding the well.   |
| Casing String and Cementing     | - | at least twenty-four (24) hours prior to running casing and cementing all casing strings.   |
| BOP and Related Equipment Tests | - | at least twenty-four (24) hours prior to initiating pressure tests.   |
| First Production Notice         | - | within five (5) business days after new well begins, or production resumes after well has been off production for more than ninety (90) days. |

For more specific details on notification requirements, please check the Conditions of Approval for Notice to Drill and Surface Use Program.

## CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas Orders, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.

Be aware fire restrictions may be in effect when location is being constructed and/or when well is being drilled. Contact the appropriate Surface Management Agency for information.

### A. DRILLING PROGRAM

#### 1. Estimated Depth at Which Oil, Gas, Water, or Other Mineral Bearing Zones are Expected to be Encountered

Report ALL water shows and water-bearing sands to Tim Ingwell of this office. Copies of State of Utah form OGC-8-X are acceptable. If noticeable water flows are detected, submit samples to this office along with any water analyses conducted.

All usable water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

#### 2. Pressure Control Equipment

The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc., for a 2M system and individual components shall be operable as designed. Chart recorders shall be used for all pressure tests.

Test charts, with individual test results identified, shall be maintained on location while drilling and shall be made available to a BLM representative upon request.

If an air compressor is on location and is being utilized to provide air for the drilling medium while drilling, the special drilling requirements in Onshore Oil and Gas Order No. 2, regarding air or gas drilling shall be adhered to. If a mist system is being utilized then the requirement for a deduster shall be waived.

The Vernal District Office shall be notified, at least 24 hours prior to initiating the pressure tests, in order to have a BLM representative on location during pressure testing.

6. Notifications of Operations

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the AO. If operations are to be suspended, prior approval of the AO will be obtained and notification given before resumption of operations.

The Vernal District Office shall be notified, during regular work hours (7:45 a.m.-4:30 p.m., Monday through Friday except holidays), at least 24 hours prior to spudding the well.

Operator shall report production data to MMS pursuant to 30 CFR 216.5 using form MMS/3160.

Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported in accordance with the requirements of NTL-3A or its revision.

If a replacement rig is contemplated for completion operations, a "Sundry Notice" (Form 3160-5) to that effect will be filed, for prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.

The date on which production is commenced or resumed will be construed for oil wells as the date on which liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which liquid hydrocarbons are first produced into a permanent storage facility, whichever first occurs; and, for gas wells as the date on which associated liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which gas is first measured through permanent metering facilities, whichever first occurs.

Should the well be successfully completed for production, the AO will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communication, not later than five (5) days following the date on which the well is placed on production.

Gas produced from this well may not be vented or flared beyond an initial authorized test period of 30 days or 50 MMCF following its completion, whichever occurs first, without the prior written approval of the Authorized Officer. Should gas be vented or flared without approval beyond the authorized test period, the operator may be directed to shut-in the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted and the operator shall be required to compensate the lessor for that portion of the gas vented or flared without approval which is determined to have been avoidably lost.

A schematic facilities diagram as required by 43 CFR 3162.7-2, 3162.7-3, and 3162.7-4 shall be submitted to the appropriate District Office within thirty (30) days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-4.

No well abandonment operations will be commenced without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the AO. A "Subsequent Report of Abandonment" Form 3160-5, will be filed with the AO within thirty (30) days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the AO or his representative, or the appropriate Surface Managing Agency.

7. Other Information

All loading lines will be placed inside the berm surrounding the tank battery.

All off-lease storage, off-lease measurement, or commingling on-lease or off-lease will have prior written approval from the AO.

Gas meter runs for each well will be located within 500 feet of the wellhead. The gas flowline will be buried or anchored down from the wellhead to the meter and within 500 feet downstream of the meter run or any production facilities. Meter runs will be housed and/or fenced.

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Tests for meter accuracy will be conducted monthly for the first three months on new meter installations and at least quarterly thereafter. The AO will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the Vernal District Office. All meter measurement facilities will conform with Onshore Oil & Gas Order No. 4 for liquid hydrocarbons and Onshore Oil & Gas Order No. 5 for natural gas measurement.

The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.

There will be no deviation from the proposed drilling and/or workover program without prior approval from the AO. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned will be identified in accordance with 43 CFR 3162.

"Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.

Section 102(b)(3) of the Federal Oil and Gas Royalty Management Act of 1982, as implemented by the applicable provisions of the operating regulations at Title 43 CFR 3162.4-1(c), requires that "not later than the 5th business day after any well begins production on which royalty is due anywhere on a lease site or allocated to a lease site, or resumes production in the case of a well which has been off production for more than 90 days, the operator shall notify the authorized officer by letter or sundry notice, Form 3160-5, or orally to be followed by a letter or sundry notice, of the date on which such production has begun or resumed."

If you fail to comply with this requirement in the manner and time allowed, you shall be liable for a civil penalty of up to \$10,000 per violation for each day such violation continues, not to exceed a maximum of 20 days. See Section 109(c)(3) of the Federal Oil and Gas Royalty Management Act of 1982 and the implementing regulations at Title 43 CFR 3162.4-1(b)(5)(ii).

APD approval is valid for a period of one (1) year from the signature date. An extension period may be granted, if requested, prior to the expiration of the original approval period.

In the event after-hours approvals are necessary, please contact one of the following individuals:

Gerald E. Kenczka      (801) 781-1190  
Petroleum Engineer

Ed Forsman              (801) 789-7077  
Petroleum Engineer

BLM FAX Machine      (801) 781-4410

## EPA'S LIST OF NONEXEMPT EXPLORATION AND PRODUCTION WASTES

While the following wastes are nonexempt, they are not necessarily hazardous.

- Unused fracturing fluids or acids
- Gas plant cooling tower cleaning wastes
- Painting wastes
- Oil and gas service company wastes, such as empty drums, drum rinsate, vacuum truck rinsate, sandblast media, painting wastes, spent solvents, spilled chemicals, and waste acids
- Vacuum truck and drum rinsate from trucks and drums, transporting or containing nonexempt waste
- Refinery wastes
- Liquid and solid wastes generated by crude oil and tank bottom reclaimers
- Used equipment lubrication oils
- Waste compressor oil, filters, and blowdown
- Used hydraulic fluids
- Waste solvents
- Waste in transportation pipeline-related pits
- Caustic or acid cleaners
- Boiler cleaning wastes
- Boiler refractory bricks
- Incinerator ash
- Laboratory wastes
- Sanitary wastes
- Pesticide wastes
- Radioactive tracer wastes
- Drums, insulation and miscellaneous solids.



**SURFACE USE PLAN OF OPERATION**  
Conditions of Approval (COAs)

Methods for Handling Waste Disposal

The reserve pit liner will have sufficient bedding (straw or dirt) to cover rocks. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash, scrap pipe, etc..., that could puncture the liner will be deposited in the pit.

The requested emergency pit is hereby approved under Onshore Order No. 7, subject to the following Conditions of Approval:

1. The emergency pit shall be fenced and the fence maintained for safety, and to prevent livestock and wildlife entry. The pit shall be fenced according to the same minimum standards listed for drilling the reserve pit under Point 9E of the Multi-point Surface Use and Operation Plan. The fence shall be maintained in a taut condition. Fences shall not be built on berms.
2. Turn downs shall be put on the ends of pipes to direct fluids downward instead of against the wall of the pit.

Additional Surface Conditions of Approval

If paleontologic resources are found or uncovered during ground disturbing activities, Balcron will suspend all operations that would further disturb such materials and immediately contact the BLM Authorized Officer.

Construction of the access road must be monitored by a qualified paleontologist.

A complete copy of the approved APD and ROW grant, if applicable, shall be on location during construction of the location and drilling activities.

The operator or his/her contractor shall contact the BLM Office at (801) 789-1362 forty-eight (48) hours prior to construction activities.

The BLM Office shall be notified upon site completion prior to moving on the drilling rig.

If the proposed oil well is scheduled for development between March 15 and August 15, additional surveys for mountain plovers will be required a minimum of 14 days prior to surface disturbance. Contact the Authorized Officer of the BLM for specific procedures.

The flare pit location will be downwind of the prevailing wind direction on the Northeast side of the location near corner #6.

CONFIDENTIAL

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

NAME OF COMPANY: BALCRON

WELL NAME: MONUMENT FEDERAL 31-17

API NO. 43-013-31428

Section 17 Township 9S Range 17E County DUCHESNE

Drilling Contractor UNION

Rig # 17

SPUDDED: Date 5/8/94

Time 10:00 AM

How DRY HOLE

Drilling will commence \_\_\_\_\_

Reported by AL PLUNKETT

Telephone # 1-823-6759

Date 5/9/94 SIGNED JLT

OPERATOR Equitable Resources Energy Company  
ADDRESS Balcron Oil Division  
P.O. Box 21017  
Billings, MT 59104  
(406) 259-7860

OPERATOR ACCT. NO. N 9890

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	11635	43-013-31428	Balcron Monument Federal #31-17	NW NE	17	9S	17E	Duchesne	5-8-94	5-8-94
WELL 1 COMMENTS: Spud of a new well.											
2 COMMENTS:											
WELL 3 COMMENTS:											
WELL 4 COMMENTS:											
WELL 5 COMMENTS:											

ACTION CODES (See instructions on back of form)

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

(3/89)

MAY 12 1994

Lobbie Schuman  
Signature

Environmental and Regulatory Specialist  
Title

Phone No. (406) 259-7860 5-10-94  
Date

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Equitable Resources Energy Company, Balcon Oil Division

3. Address and Telephone No.

P.O. Box 21017, Billings, MT 59104 (259-7860)

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

660' FNL, 1980' FEL  
NW NE Section 17, T9S, R17E

5. Lease Designation and Serial No.

UTU-72106

6. If Indian, Allottee or Tribe Name

n/a

7. If Unit or CA, Agreement Designation

n/a

8. Well Name and No.

Balcon Monument Federal #31-17

9. API Well No.

43-013-31428

10. Field and Pool, or Exploratory Area

Monument Butte/Green River

11. County or Parish, State

Duchesne County, Utah

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent  
☒ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

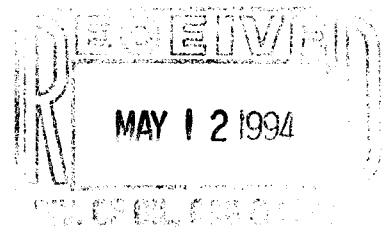
- ☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other Report of Spud.

- ☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

This well was spud on 5-8-94 at 10:00 a.m. by Leon Ross Air Drilling.



14. I hereby certify that the foregoing is true and correct

Signed Bobbie Schuman

Environmental and

Title Regulatory Specialist

Date 5-10-94

(This space for Federal or State office use)

Approved by \_\_\_\_\_  
Conditions of approval, if any:

Title \_\_\_\_\_

Date \_\_\_\_\_

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*See Instruction on Reverse Side

UTAH DIVISION OF OIL, GAS AND MINING  
EQUIPMENT INVENTORY

Operator: EQUITABLE RESOURCE ENERGY Lease: State: Federal:  
Y Indian: Fee:       

Well Name: BALCRON MON FED 31-17 API Number: 43-013-31428

Section: 17 Township: 9S Range: 17E County: DUCHESNE Field: MON BUTTE

Well Status: POW Well Type: Oil: OIL Gas:       

PRODUCTION LEASE EQUIPMENT: YES CENTRAL BATTERY:       

Y Wellhead        Boiler(s)        Compressor        Separator(s)

       Dehydrator(s)        Shed(s)        Line Heater(s)        Heated  
Separator

       VRU        Heater Treater(s)

PUMPS:

       Triplex        Chemical 1 Centrifugal

LIFT METHOD:

Y Pumpjack        Hydraulic        Submersible        Flowing

GAS EQUIPMENT:

N Gas Meters        Purchase Meter        Sales Meter

TANKS: NUMBER

SIZE

<u>Y</u>	Oil Storage Tank(s)	<u>2-400 OIL TANKS W/BURNERS</u>	<u>      </u> BBLS
<u>Y</u>	Water Tank(s)	<u>1-150 SUBSURFACE PITTANK</u>	<u>      </u>
<u>      </u>	Power Water Tank	<u>      </u>	<u>      </u> BBLS
<u>      </u>	Condensate Tank(s)	<u>      </u>	<u>      </u> BBLS
<u>Y</u>	Propane Tank	<u>      </u>	<u>      </u>

REMARKS: NO GAS METERS. GAS VENTED WHEN PRESSURE OVER COMES REGULATOR  
GLYCOL PUMP WITH FLUID HEATED BY MUFFLER.

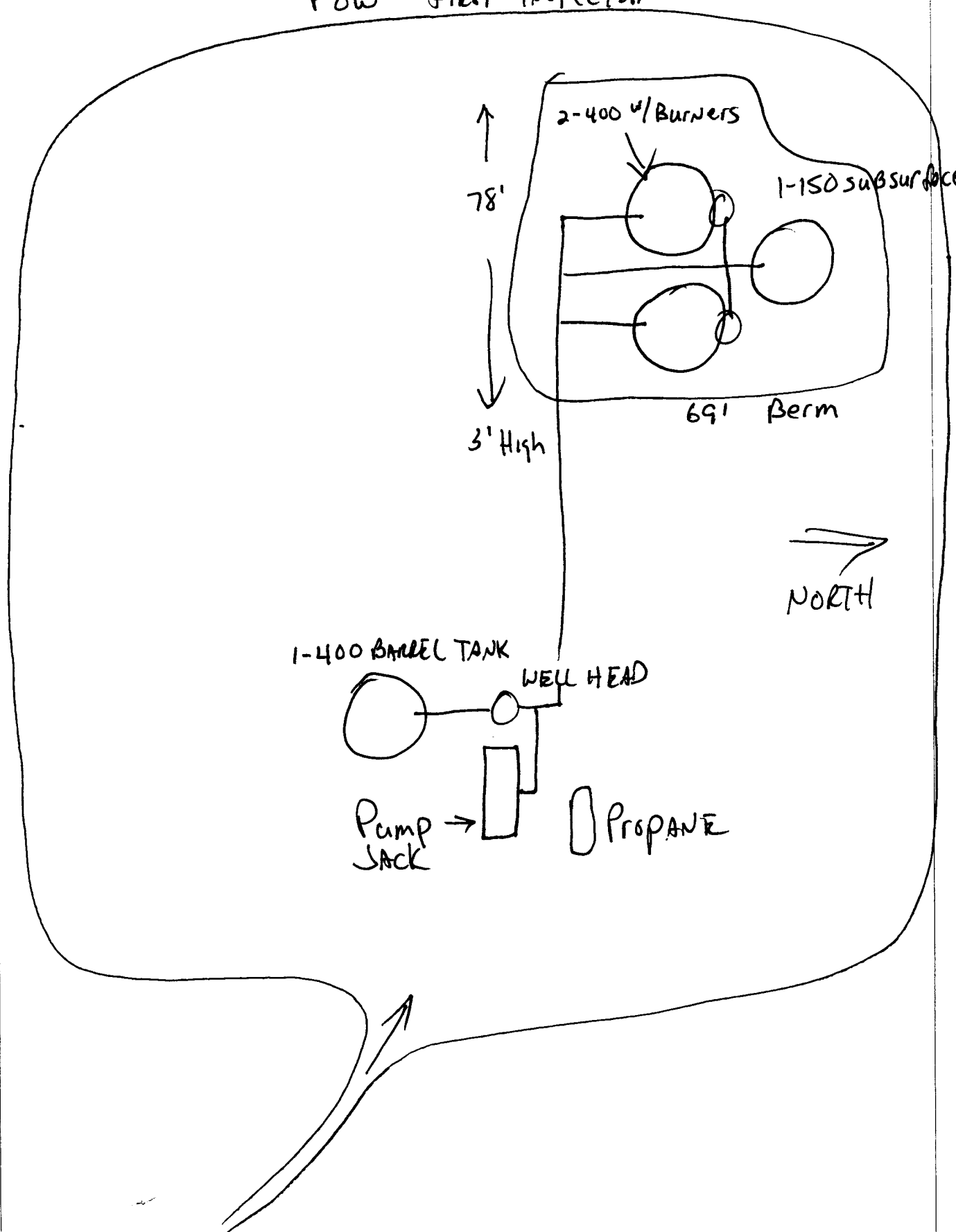
Location central battery: Qtr/Qtr:        Section:        Township:         
Range:       

Inspector: DENNIS INGRAM Date: 6/14/94

EQUITABLE RESOURCES Co  
Balcron Mon Fed #31-17  
Sec 17 T9S R17E  
POW FIRST INSPECTION

UTU-72106  
43-013-31428

42-381 50 SHEETS 3 SQUARE  
42-382 100 SHEETS 3 SQUARE  
42-383 200 SHEETS 3 SQUARE



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Equitable Resources Energy Company, Balcon Oil Division

3. Address and Telephone No.

P.O. Box 21017, Billings, MT 59104 (406) 259-7860

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

660' ENL, 1980' FEL

NW NE section 17, T9S, R17E

5. Lease Designation and Serial No.

UU-72106

6. If Indian, Allottee or Tribe Name

n/a

7. If Unit or CA, Agreement Designation

n/a

8. Well Name and No.

Balcon Monument Federal #31-17

9. API Well No.

43-013-31428

10. Field and Pool, or Exploratory Area

Monument Butte/Green River

11. County or Parish, State

Duchesne County, Utah

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent  
☒ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other Report of First Production.  
☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

First production on this well was on 6-13-94 at 2:10 p.m.

JUN 15 1994

14. I hereby certify that the foregoing is true and correct

Signed Bobbie Schuman

Regulatory and  
Title Environmental Specialist

Date 6-14-94

(This space for Federal or State office use)

Approved by \_\_\_\_\_  
Conditions of approval, if any:

Title \_\_\_\_\_

Date \_\_\_\_\_

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*See Instruction on Reverse Side

# WELL REPORT

Balcron Oil  
Monument Federal 31-17  
NW NE Sec 17-T9S-R17E  
Duchesne County., 43-013-31428 Utah

## CONFIDENTIAL

FRANK A. RADELLA, INC.

Oil & Gas Exploration & Consulting  
1610 Lewis Suite 202E  
Billings, Montana 59102

FRANK A. RADELLA  
Ofc. 406-245-5375

Res. 656-7215



**FRANK A. RADELLA, INC.**

---

Oil & Gas Exploration & Consulting

1601 Lewis Ave.  
Billings, Montana 59102  
(406) 245-5375

Balcron Oil  
Monument Federal 31-17  
NW NE Section 17-T9S-R17E  
Duchesne County, Utah

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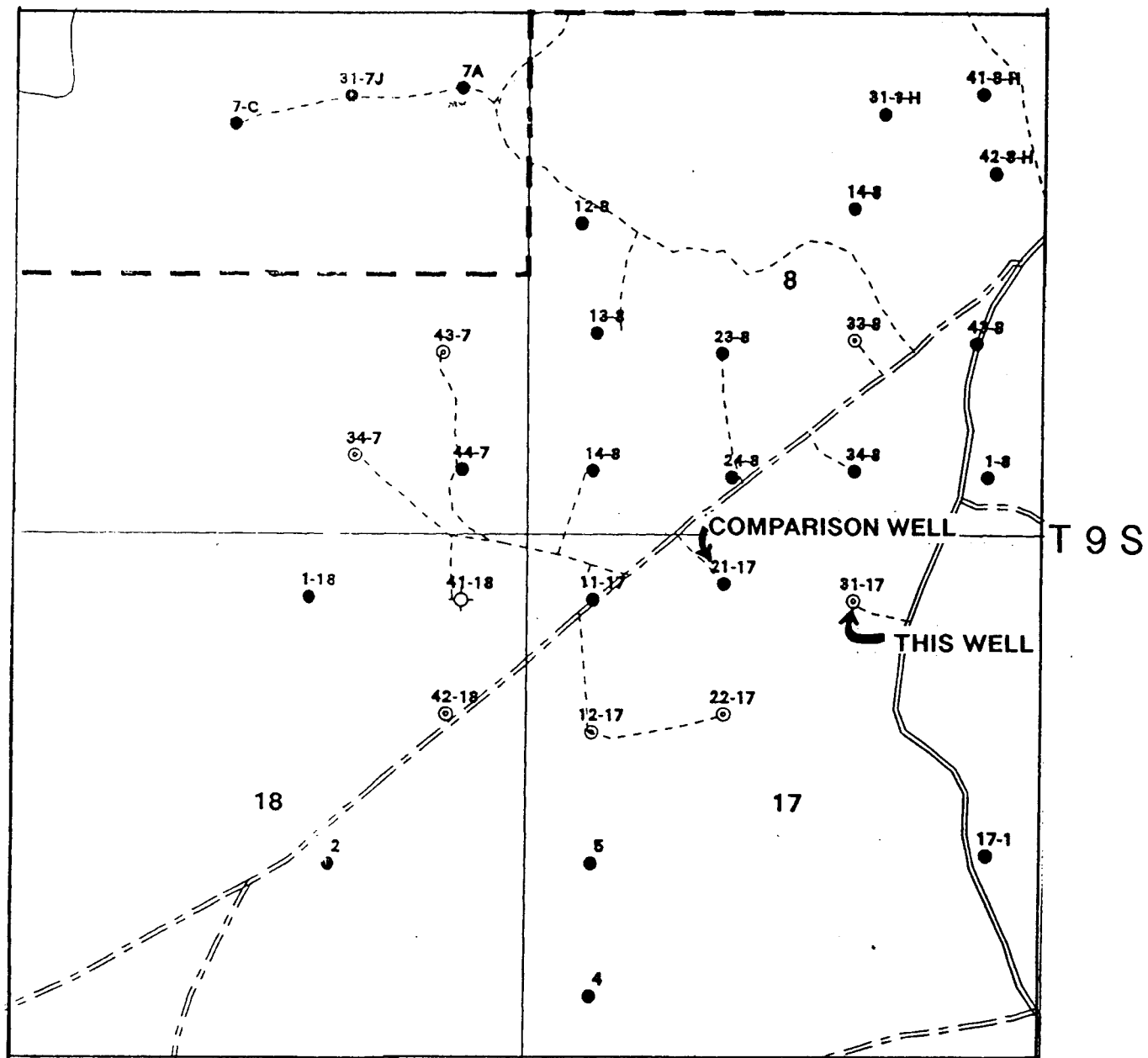
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2	Area Map
3	General Statistics
3	Surface Casing
3	Production Casing
4	Dual-Laterolog Formation Tops
5	Mud Log Shows and Potential Productive Zones
6	Penetration Chart
7	Surveys and Bit Record
8	Drilling Fluid Data
9	Daily Drilling History
11	Sample Descriptions
Insert	Drill Time-Litholog

by

Frank A. Radella  
Certified Petroleum Geologist  
AIPG AAPG

XEROFICHE

R 17 E



# LOCATION MAP

PORTION OF MONUMENT BUTTE FIELD

DUCHESNE CO., UTAH

**FRANK A. RADELLA, INC.**  
Oil & Gas Exploration & Consulting

1601 Lewis Avenue Suite E  
Billings, Montana 59102  
(406) 245-5375

<u>OPERATOR:</u>	Balcron Oil
<u>WELL NAME:</u>	Monument Butte Federal 31-17
<u>LOCATION:</u>	NW NE Sec 17(660' FNL x 1980 FEL) T9S R17E
<u>COUNTY:</u>	Duchesne
<u>STATE:</u>	Utah
<u>ELEVATIONS:</u>	GL 5360 KB 5368
<u>SPUD DATE:</u>	5-9-94 @ 11:00 AM
<u>OUT FROM UNDER SURFACE CASING:</u>	5-18-94 @ 8:15 PM (Surface Casing preset)
<u>REACH T.D.:</u>	5-20-94 @ 4:45 PM
<u>RIG RELEASE:</u>	5-22-94 @ 11:45 AM
<u>DAYS OUS TO T.D.:</u>	8
<u>DAYS OUS THROUGH LOGGING.:</u>	9 <u>TO RIG RELEASE:</u> 10
<u>TOTAL DEPTH:</u>	5750' Driller; 5750' Logger
<u>HOLE SIZE:</u>	12 1/4" 0 -360' - 7 7/8" 360-5750'
<u>STATUS:</u>	To complete as an Oil Well
<u>PENETRATION:</u>	388' into Wasatch Formation
<u>GEOLOGIST:</u>	Frank A. Radella - consultant
<u>DRILLING ENGINEER:</u>	Al Plunkett - consultant
<u>LOGGING PROGRAM:</u>	Schlumberger Unit 8264 Vernal, Utah, Engineer - Jeff Gebhart Dual Laterolog Micro SFL-SP-GR 355-5748' Compensated Neutron Lithodensity 2500-5748'
<u>LOST CIRCULATION ZONES</u>	None
<u>DRILL TIME LOGS:</u>	1400-4100' 2" = 100' Radella 3850-5750 5" = 100' Radella
<u>SAMPLE DISPOSAL:</u>	Utah Geological Sample Library
<u>MUD LOGGING EQUIPMENT:</u>	Monaco 2 man Unit Hot Wire, chromatograph on @ 1400'. Loggers: Pete Waldon and Chris Jensen
<u>CORES:</u>	none
<u>DSTs:</u>	none
<u>SURFACE CASING:</u>	7 Jts (345') of 8 5/8" 24# J-55 casing set @ 355' RKB with 225 sx class "G" & additives. See Drilling History for details.
<u>PRODUCTION CASING:</u>	5 1/2" 15.50#/ft J-55 casing set @ 5741.98 RKB with 440 sx cement. See Drilling History for details

Balcron Oil  
Monument Butte Federal 31-17  
NW NE Section 17-T9S-R17E  
Duchesne County, Utah

**K.B. 5368'**

<u>DUAL INDUCTION LOG TOP</u>	<u>DEPTH</u>	<u>DATUM</u>	<u>position of 31-17 compared to 21-17 (1)</u>
Green River	1420	(+3928)	8' High
Horsebench Sandstone	2121	(+3247)	3' Low
2nd Garden Gulch	3724	(+1644)	4' Low
*Y-2 Sandstone	4010	(+1358)	13' High
Y-3 Sandstone	4056	(+1312)	NC
Yellow Marker	4341	(+1027)	8' High
Douglas Creek	4504	(+864)	8' High
*R-2 Sandstone	4582	(+786)	NC
*R-5 Sandstone	4688	(+680)	3' Low
2nd Douglas Creek	4738	(+630)	8' High
Green Marker	4871	(+497)	13' High
*G-1 Sandstone	4886	(+482)	NC
*G-3 Sandstone	4948	(+420)	NC
Carbonate Marker	5362	(+6)	11' Low
B-1 Sandstone	5392	(-24)	13' Low
B-3 Sandstone	5572	(-204)	8' Low

**T.D. Driller 5750'**

**T.D. Logger 5750'**

**\*apparent Pay Sands**

(1) Comparison Well: Balcron Oil  
Monument Butte Federal 21-17  
NE NW 17-T9S-R17E  
Located +/- 1300' West of 31-17

# MUD LOG SHOW AND POTENTIAL PRODUCTION ZONES

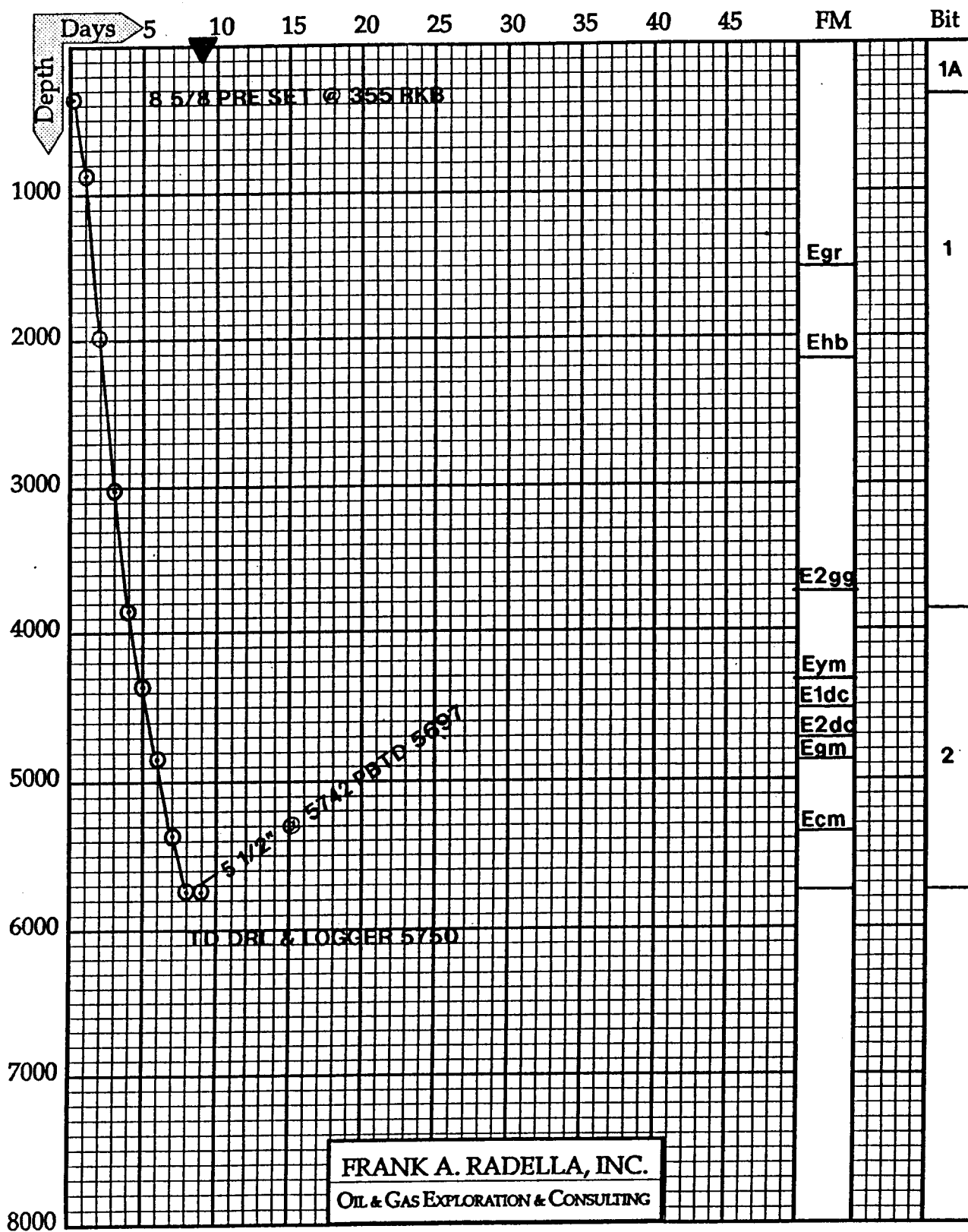
Balcron Oil  
Monument Butte Federal 31-17  
NW NE Section 17-T9S-R17E  
Duchesne County, Utah

FM	Depth	Drill	Rate	mpf	Total Gas			Chromatograph ppm					Geologist Observations Remarks	Field Analysis Production Type & Potential	*Probable Productive by logs
		Before	During	After	Before	Peak	After	C1	C2	C3	NC4	C4			
Y-2 Sandstone	4016-4026	2-3	1 1/2-2	2	8	900	20	50K	7K	5.5K	2.2	.9	SS: tan, mod fri, free oil, fair cut	Oil-Good	*
	4522-4528	3	2	3	20	400	20	15	2.5	2	1	.28	SS: poor vis por, lt brn stn, fair cut	Oil-Fair	
R-2 Sandstone	4586-4594	3	2	3	6	430	11	25	5	3.5	1	.7	SS: poor vis por, lt tn stn, wk strm cut	Oil-Fair	*
R-5 Sandstone	4672-4682	3	2 1/2	3	10	1525	20	70	23	10	2.2	1	SS: tan, brn, tr bld oil, p por, inst f-g cut	Oil-Good	*
R-5 Sandstone	4688-4694	3	2	3	20	900	40	50	13	4	1.5	.8	as above, tr oil specks	Oil-Good	
G-1 Sandstone	4888-4896	2 3/4	1 1/2	2 1/2-3	20	900	20	40	1.5	1.2	.4	.3	SS: p-f Ø fri, lt brn stn, num oil specs	Oil-Good	*
G-3 Sandstone	4950-4962	2 1/2	1 1/2	2 1/2	20	1400	30	50	9	7	1.4	1	SS: m brn, fri, gd oil sat, inst f-gd cut	Oil-Good	*
	5154-5158	3	3-3 1/2	2 1/2	12	150	60	20	6	4	1	.4	SS: m-dk brn, tite, drops free oil	Oil-Fair	
B-1 Sandstone	5412-5426	2-3	1 1/2	2 1/2-3 1/2	80	700	60	40	12	9	3	2.5	Sand unconsol, mgr, lt stn, wk strm cut	Oil-Good	
B-3 Sandstone	5576-5584	2 1/2	1 1/2	2 1/2	60	650	60	40	7	5	1.5	1.2	Sand: a/a, blue grn fluor, wk cut	? Gas-Good	
	5702-5704	3	2 1/2	3	20	425	30	13	3.5	2.5	3	.9	Sand: a/a, wk milky cut	? Gas-Fair	

# PENETRATION CHART

BALCRON 31-17 MON. BUTTE FED.

Total Days 9 Logs 2  
Total Bits 2 Rotating Hours 148.5



# BIT RECORD

[illegible]

### DRILLING FLUID DATA

<u>Date</u>	<u>Depth</u>	<u>WT</u>	<u>VIS</u>	<u>PH</u>	<u>CHL</u>	<u>KCL%</u>	<u>Daily Cost</u>	<u>Cum Cost</u>
5-12-94	880		Drilling with Air & Mist			1	\$300	\$300
5-13-94	1983	8.3	26		5000	1	450	750
5-14-94	3016	8.3	26		5000	1	400	1150
*5-15-94	3842	8.4	26		5000	1	400	1550
5-16-94	4370	8.3	26	9.5	5000	1.1	400	1950
5-17-94	4840	8.3	26	11	6000	1.2	800	2750
5-18-94	5378	8.3	26	10.2	6200	1.3	500	3250
5-19-94	5750	8.3	26	10	6000	1.2	800	\$4100
Field Total (estimates)								\$4100

\*Air & Mist Drilling to 3842', properties reported for makeup water.  
Convert to KCL water @ 3842' to T.D. @ 5750'.



Balcron Oil  
31-17 Monument Butte Federal  
NW NE Section 17-T9S- R17E  
Duchesne County, Utah

Daily Drilling History

Data compiled from the records of Al Plunkett, drilling consultant and tower sheets. The depth reported is at 6:00 AM followed by current activity, followed by the previous day's 24 hour activity. The daily footage and rotating hours is followed by total hours to date.

**Note:** The casing was pre-set before Union drilled out from under surface.

Day    Date

- 5-9-94    Depth 0; Spud 12 1/4" surface hole @ 11:00 AM on 5-9-94 with Ross Drilling Co.  
Air rig drilled to 225'.
- 5-10-94    Depth 225'; Drilled to 345':  
Ran 7 joints (345') of 8 5/8", 24#, J-55 casing set @ 355' RKB. Cement with 225 sx of class "G" cement +2% Cal Ch + 1/4#sk Floseal. Circulate approximately 9 bbls cement to pits. Plug down @ 12:15 PM on 5-10-94.
1.    5-12-94    Depth 880'; Drilling in Uintah Formation:  
Move rig in and rig up. Nipple up BOP & manifold, test to 2000psi, test casing to 1500 psi. Pick up drill collar and drill cement and shoe, survey. Drilled out from under surface casing @ 8:15 PM on 5-11-94 with 7 7/8" Bit #1. Drilling with air.  
Drilled 525' in 7 1/4" Rotating Hours (RH), Cumulative Rotating Hours (Cum RH) 7 1/4.
2.    5-13-94    Depth 1983'; Drilling in Green River Formation:  
Drill, survey, work on air compressors. Drilling with air and mist.  
Drilled 1103' in 22 1/2 RH, Cum RH 27 3/4.
3.    5-14-94    Depth 3016'; Drilling in Green River Formation:  
Drill and survey.  
Drilled 1033' in 22 1/4 RH, Cum RH 52.
4.    5-15-94    Depth 3842'; Tripping in hole with Bit #2:  
Drill, survey, drilled to 3842', blew hole, loaded hole with KCL water, circulate and trip out with Bit #1. Pick up 4 drill collars. SLM @ 3842' board = 3852' strap. Correct geolograph to 3852'.  
Drilled 826' in 17 RH, Cum RH 69.
5.    5-16-94    Depth 4370'; Drilling in Yellow Zone:  
Finish trip in hole with Bit #2, drill, work on pump, survey.  
Drilled 528' in 18 3/4 RH, Cum RH 87 3/4.

6. 5-17-94 Depth 4840'; Drilling in Green Zone:  
Drill, survey, work on pump.  
Drilled 470' in 21 1/2 RH, Cum RH 109 1/4.
7. 5-18-94 Depth 5378'; Drilling in Green Zone:  
Drill and survey.  
Drilled 538' in 22 1/4 RH, Cum RH 131 1/2.
8. 5-19-94 Depth 5750'; Logging:  
Drill. Reach T.D. 5750' @ 11:30 PM on 5-18-94. Circulate 1 hr; trip out for logs 3 1/2 hrs.; strap out, 1' difference, no correction; 2 hrs. logging.  
Drilled 392' in 17 RH, Cum RH 148 1/2.
9. 5-20-94 Depth 5750'; Moving Rig:  
5 hrs. continue logging, Run #1 with CNL Density and Dual laterolog stacked was a tool malfunction, Run #2 was OK. No hole problems; 5 hrs. Trip in hole, laid down pipe and collars; 1 1/2 hrs. change pipe rams and test BOP to 2000 psi, OK. 3 1/2 hrs. rig up and run 5 1/2" casing as follows:

guide shoe	.60	
1 Jt 5 1/2" + 15.50 shoe Jt.	43.03	
float collar	1.00	
131 Jts 5 1/2": 15.50#/ft, K-55	<u>5688.35</u>	
	5732.98	
landing Jt	<u>9.00</u>	
set @	5741.98	RKB

Plug back T.D. 5697.35'. Cement with Western with 165 sx thrifty lite cement, tail with 275 sx 50-50 Pozmix. Plug down @ 12:45 AM on 5-20-94. Nipple down, Release rig @ 4:45 Am on 5-20-94.

Balcron Oil  
Monument Butte Federal 31-17  
NW NE 17-T9S-R19E  
Duchesne County, Utah

Sample Descriptions

by  
Frank A. Radella

Samples were run wet for color, texture and Lithology, dry for porosity, and both wet and dry for shows and fluorescence. Cutting agent was Trichlorothene. Geologist on location from 1400' to T.D. and for logs. Descriptions are lagged to Induction log depths. Shows of Oil are underlined. Log tops are indicated below. Drill cuttings were extremely fine (rarely exceeding .50 mm) but were of good quality unless noted otherwise.

A two man Monaco mud log unit with hot wire and chromatograph was utilized from 1400' to T.D. Mud loggers caught lagged samples. The drilling fluid from 355' to 3842' was air and mist using KCL makeup water, from 3842' to T.D. the drill fluid was 1 to 1.5% KCL water.

Sand Grain Size Parameters

Silt	.004 - .062 mm
Very fine grained	.062 - .125 mm
Fine grained	.125 - .250 mm
Medium grained	.250 - .50 mm
Coarse grained	.50 - + mm

Sample Program

1400 - 2100'	50' samples
2100 - 3850'	30' samples
3850 - 5750' T.D.	10' samples

GREEN RIVER 1420' (+3948')

1410 - 1500	Shale: medium gray, dolomitic, platy, <u>oil shale</u> ; interbedded with 40% Dolomite: tan, micritic, platy, no visible porosity, <u>pale gold fluorescence</u> , <u>milky cut with few weak streamer cuts</u> , cuttings are extremely fine and uniform. Sample quality is very good.
1500 - 1650	Limestone: light to dark pink tan, microcrystalline to micritic, dolomitic, marly, argillaceous, <u>slow fair milky cut</u> , <u>Background show</u> ; decrease in Shale: as above.
1650 - 1700	Limestone: tan, brown tan, micritic to microcrystalline, dolomitic, pyritic, argillaceous, platy, <u>weak milky cuts</u> .
1700 - 1750	10% Limestone: light gray, micritic, argillaceous.

- 1750 - 1800 Limestone: light gray tan, as above, decrease in fluorescence to pale, slow milky cut.
- 1800 - 2000 Limestone: as above with some richer brown, colors are brighter wet, more somber when dry.
- 2000 - 2100 Shale: pale red-brown as above, limey, platy; grading to and from Limestone: as above, slow milky cuts.

**Start 30' Samples.**

**HORSEBENCH SANDSTONE 2121' (+3247')**

- 2100 - 2130 trace of Sandstone: white, very fine grained, trace gray inclusions, pyritic, no porosity, no show; Limestone: tan, micritic, argillaceous, platy; trace of Shale: light gray, dolomitic, platy, weak milky cut.
- 2130 - 2160 Shale: light gray, as above; Sandstone and Limestone: as above, trace weak milky cut.
- 2160 - 2190 Limestone: light brown to tan, micritic, dolomitic as above; Shale: light gray as above; trace of Limestone: white, microcrystalline, very fine sandy, blocky, weak milky cuts.
- 2190 - 2250 Limestone: pale red brown, micritic, argillaceous, platy; trace of Sandstone: white, very fine grained, limey, no visible porosity; Shale: pale red brown, dolomitic.
- 2250 - 2490 Shale: dark gray brown wet, dark gray dry, limey, waxy, increase in instant milky cut.
- 2490 - 2520 Shale: dark gray, brown, as above; trace of Limestone: white, microcrystalline, blocky.
- 2520 - 2550 Shale: dark gray brown, few chips bleeding dark brown oil, with pale golden fluorescence, slight increase in cut intensity.
- 2550 - 2580 Sandstone: white, very fine grained, light tan stain, few intergranular specks of dark brown oil, no matrix porosity.
- 2580 - 2610 Limestone: tan, medium brown, microcrystalline, oil saturated, bleeding oil in part, trace intercrystalline porosity, medium bright fluorescence, strong cut.
- 2610 - 2640 Limestone: light tan, micritic, trace sandy, pyritic, no porosity, strong cut as above.
- 2640 - 2670 Sandstone: light gray tan, very fine grained, limey, pyritic; with Limestone: as above.
- 2670 - 2700 Sandstone: light tan, very fine grained, loose grains, few tight clusters, light oil stain, strong cut.

2700 - 2730	Shale: dark gray brown, limey; Sandstone: tan as above, moderate amount loose grains, increase in tight clusters as above.
2730 - 2760	Shale: as above; decrease in Sandstone to trace.
2760 - 2790	Sandstone: white, tan, light gray, very fine grained, few angular very fine dark gray inclusions, no visible porosity, <u><i>tan is oil stained</i></u> , no fluorescence, <u><i>slow fair streamer cut</i></u> .
2790 - 2820	Shale: gray brown, dark brown, waxy, <u><i>oil shale</i></u> ; decrease in Sandstone: as above.
2820 - 2850	Sandstone: white, light gray, trace tan, very fine grained, scattered gray grains, no visible porosity, few loose grains, dolomitic, <u><i>weak to fair streamer cuts</i></u> ; grades to Sandstone: dark gray, argillaceous, platy.
2850 - 2880	Limestone: white, microcrystalline, platy; Shale: tan, gray, brown, dolomitic, <u><i>trace beads of bleeding dark brown oil, very weak milky cut</i></u> .
2880 - 2910	Shale: tan, as above; Limestone: white, as above, very fine sandy.
2910 - 2940	Sandstone: white, tan, mostly gray, very fine grained, few black grains, poor to fair sorting, dolomitic matrix, micaceous, pyritic, argillaceous in part, no visible porosity; Shale: medium gray, sandy, dolomitic, platy, <u><i>strong milky cut</i></u> .
2940 - 2970	Sandstone: as above; Shale: tan and gray as above; trace of Limestone: white, microcrystalline, very fine sandy, <u><i>strong milky cut</i></u> .
2970 - 3000	Shale: gray; trace of Sandstone: as above.
3000 - 3030	trace of Limestone: white, microcrystalline, <u><i>1 chip bleeding dark brown oil from scattered poor intercrystalline porosity</i></u> .
3030 - 3050	Sandstone: white, tan, very fine grained, well sorted, trace pyritic, no visible porosity, <u><i>scattered patches of black oil stain</i></u> ; Shale: dark gray brown, <u><i>fair streamer cut</i></u> .
3050 - 3080	Shale: medium gray, dolomitic, trace pyritic, platy; trace of Sandstone: as above.
3080 - 3130	Limestone: white, cream, microcrystalline to micritic, platy; Shale: gray as above and gray brown.
3130 - 3180	Limestone: white, micritic, platy and dark brown, cryptocrystalline, platy; decrease in Shale: gray as above.
3180 - 3270	decrease in Limestone: as above; increase in Shale: medium gray, dolomitic, platy.
3270 - 3000	Shale: gray; trace of Sandstone: as above.

3000 - 3030	trace of Limestone: white, microcrystalline, <u>1 chip of bleeding dark brown oil from scattered poor intercrystalline porosity.</u>
3030 - 3050	Sandstone: white, tan, very fine grained, well sorted, trace pyritic, no visible porosity, <u>scattered patches of black oil stain</u> ; Shale: dark gray brown, <u>fair streamer cut.</u>
3050 - 3080	Shale: medium gray, dolomitic, trace pyritic, platy; trace of Sandstone: as above.
3080 - 3130	Limestone: white, cream, microcrystalline to micritic, platy; Shale: gray, as above and gray brown.
3130 - 3180	Limestone: white, micritic, platy and dark brown, cryptocrystalline, platy; decrease in Shale: gray as above.
3180 - 3270	decrease in Limestone: as above; increase in Shale: medium gray, dolomitic, platy.
3270 - 3300	Shale: gray; trace of Sandstone: as above.
3300 - 3330	Limestone: cream, tan, amorphous, chalky.
3330 - 3360	Limestone: cream as above; Shale: medium gray, dolomitic, platy to blocky.
3360 - 3450	trace of Shale: dark green, dolomitic, platy, no cut; Shale: medium gray, dolomitic, platy; trace of Limestone: white, cream, amorphous.
3450 - 3480	Sandstone: light gray, very fine grained, well sorted, sub angular, calcareous cement, siliceous, no visible porosity, <u>few chips with brown oil stain</u> , no fluorescence, <u>very weak milky cut.</u>
3480 - 3510	decrease in Sandstone: as above; Shale: medium gray, platy.
3510 - 3540	Shale: tan, brown, dolomitic, platy, <u>instant fair streamer cuts</u> ; Shale: gray, platy.
3540 - 3570	Shale: medium brown, dolomitic, platy, <u>pale gold fluorescence, instant fair streamer cut</u> ; Dolomite: medium brown, microcrystalline, <u>instant fair streamer cut.</u>
3570 - 3660	Shale: medium brown as above; Shale: medium gray, green gray, platy.
3660 - 3690	Sandstone: white, very fine grained, siliceous cement, no visible porosity; Shale: pale green gray, waxy, platy, no cut.
3690 - 3720	Sandstone: as above with loose fine to medium sub angular to sub round, clear quartz grains, no porosity, no show; Limestone: white, micritic; Shale: as above.

## 2nd GARDEN GULCH 3724' (+1644')

- 3720 - 3750 Limestone: cream, white, micritic, platy, pale fluorescence, no show; Shale: pale green-gray, as above.
- 3750 - 3780 Shale: green-gray, light gray, trace red brown; trace of Sandstone: light gray, very fine grained, calcareous cement.
- 3780 - 3810 Sandstone: white, occasional gray grain, very fine grain, well sorted with weak streamer cut, trace of black interstitial residue, no porosity, no fluorescence, poor show; grades to argillaceous Sandstone: light gray.
- 3810 - 3842 Sandstone: as above; Shale: light gray, very fine sandy.
- Trip for Bit #2 and convert from air to mud drilling fluid. S.L.M. 3842' Driller depth = 3852' Steel Line Measurement. Correct Geolograph 10' down hole to 3852' on first Kelly down, corrected trip depth was 3861'.

### **Start 10' Samples.**

- 3861 - 3890 Shale: medium gray, silty, dolomitic, platy; Sandstone: light gray, very fine grained, calcareous cement, no porosity, few loose medium angular clear quartz grains, cuttings extremely fine.
- 3890 - 3900 Shale: light gray, as above; trace of Sandstone: as above; trace of Shale: dark brown.
- 3900 - 3910 Shale: light gray, silty, dolomitic to platy.
- 3910 - 3920 Sandstone: white, very fine grained, calcareous cement, few black grains, no visible porosity; grades to poorly sorted Sandstone: with white calcareous cement; Shale: light gray, silty.
- 3920 - 3930 as above; increase in Shale: white; Shale: as above.
- 3930 - 3940 Shale: light gray, trace pale brown; Sandstone: as above with pellets; dark gray, loose fine to coarse individual pellets, calcareous, oblong to round; trace of Limestone: dark brown, micritic, blocky; Shale: rich brown, slow streamer cut; Sandstone: white, light gray, very fine grain, no visible porosity, trace black stain, weak cut.
- 3940 - 3960 Shale: rich brown, slow streamer cut; Sandstone: light gray, very fine grained, white calcareous cement, no porosity, no show; with Shale: light gray, silty to very fine sandy.
- 3960 - 3970 increase in Sandstone: as above.
- 3970 - 3990 Shale: gray, silty, dark brown, oil shale.
- 3990 - 4000 Shale: rich brown oil shale; Sandstone: argillaceous.
- 4000 - 4010 Sandstone: light gray, salt and pepper, white noncalcareous cement, no porosity, no show.

## Y-2 SANDSTONE 4010' (+1358')

- 4010 - 4020 Sandstone: tan wet, very fine grained, sub angular to sub round, frosted in part, moderately friable, possible fair to good porosity, numerous pin point specks of dark brown oil wet, few chips bleeding oil, tan overall stain dry, good oil saturation, pale green gold fluorescence, slow fair streamer cut, free oil on sample wash water.
- 4020 - 4030 Sandstone: with show as above; with Sandstone: white, very fine to fine grained, sub round, poorly sorted, white noncalcareous cement, no porosity, no show; Shale: rich brown bleeding dark brown oil.
- 4030 - 4040 Shale: pale gray, silty; Siltstone: pale green gray.
- 4040 - 4050 Shale: rich brown, oil shale; Shale and Siltstone: as above.

## Y-3 SANDSTONE 4056' (+1312')

- 4050 - 4060 Sandstone: white, very fine grained, well sorted, sub angular, no visible porosity, rare chip with light tan oil stain, very weak cut, poor show, moderate amount of loose very fine to fine clear sub angular quartz grains, no show apparent.
- 4060 - 4070 Shale: rich brown, oil shale; Sandstone: gray, very fine to fine grained, poorly sorted, argillaceous; Sandstone: as above.
- 4070 - 4080 Shale: light gray, trace brown, as above; Siltstone: light gray; trace of Sandstone: light gray to white, poorly sorted, as above, no porosity, no show.
- 4080 - 4100 Shale: gray brown, silty, noncalcareous, platy, moderate amount of loose very fine to fine sub angular clear quartz grains, no show apparent.
- 4100 - 4110 Shale: tan to medium brown, oil shale; with Siltstone: pale gray green, very fine sandy, argillaceous, trashy.
- 4110 - 4120 Shale: tan, gray; trace of Sandstone: as above, with moderate amount of loose quartz grains, very fine to fine.
- 4120 - 4130 Shale: light gray, silty; grades to Siltstone: light gray, argillaceous.
- 4130 - 4140 Sandstone: white, very fine grained, silty, siliceous, argillaceous, no porosity, no show; Shale: light gray, as above.
- 4140 - 4180 increase in Shale: medium gray, brown gray, noncalcareous, platy; trace of Shale: medium brown, as above.
- 4180 - 4190 Sandstone: white, very fine grained, trace fine grained, sub angular, dolomitic cement, fair to good sorting, no visible porosity, siliceous in part, no show; Shale: brown, oil shale.



- 4190 - 4200 Sandstone: white, as above to light gray, argillaceous, no visible porosity, rare chip with dark brown oil residue, very weak cut, poor show; Siltstone: light gray, pyritic; trace of tan ostracods, loose, calcareous.
- 4200 - 4230 Shale: dark brown to gray brown, trace silty, oil shale.
- 4230 - 4250 Shale: light green gray; trace of Dolomite: tan, micritic, platy; trace of ostracods; trace of Sandstone: white, very fine grained, siliceous, no porosity, no show.
- 4250 - 4260 Sandstone: white, very fine grained, siliceous, no visible porosity, parting plane with black residue; Shale: light gray, silty, trace very fine sandy, platy.
- 4260 - 4280 Shale: light gray, silty to sandy, as above; Sandstone: white to light gray, very fine grained, sub angular to sub round, calcareous cement, no visible porosity, no show.
- 4280 - 4290 Sandstone: white, very fine to fine grained, fair sorting, sub angular, sub round, calcareous cement, no porosity, no show.
- 4290 - 4300 Sandstone: as above, trace micaceous, few loose fine grains, sub round; trace of Shale: brown, oil shale.
- 4300 - 4340 Sandstone: as above; with Shale: medium brown, oil shale; Shale: light gray, trace silty, platy.

#### **YELLOW MARKER 4341' (+1027')**

- 4340 - 4350 Shale: dark brown gray to black, dolomitic, waxy, oil shale; Shale: cream, tan, calcareous, waxy, oil shale, weak milky cuts.
- 4350 - 4380 trace of Sandstone: white, very fine grained, silty, no porosity, no show; Shale: light gray, silty, platy, siliceous.
- 4380 - 4390 Siltstone: light gray, noncalcareous, argillaceous, trace pyritic, very fine sandy, no porosity, no show; Shale: light gray, silty, noncalcareous, platy, ostracodal.
- 4390 - 4400 Siltstone and Shale: as above; trace of Sandstone: white, few gray grains, very fine to fine grained, dolomitic, cement, no porosity, no show.
- 4400 - 4430 increase in Sandstone: white, as above; Siltstone and Shale: gray, as above; Shale: dark brown, oil shale.
- 4430 - 4450 Sandstone: white, very fine, trace of fine grains, argillaceous in part, no porosity; Shale: as above.
- 4450 - 4460 Sandstone: white, light gray, as above; few loose whole ostracods, tan, calcareous; Shale: as above.
- 4460 - 4480 Shale: light gray, silty in part, dolomitic, platy; trace Shale: brown, oil shale; decrease in Sandstone: as above.

4480 - 4500 Sandstone: white, light gray, very fine grained, few fine grains, fair sorting, dolomitic cement, no porosity, no show; Shale: gray and brown, as above.

**DOUGLAS CREEK 4504' (+864')**

4500 - 4520 Shale: tan to brown, oil shale, slow weak streamer cut, dolomitic; trace of Limestone: medium brown, micritic, sub blocky.

4520 - 4530 Sandstone: light tan, very fine grained, sub angular, clear quartz grains, well sorted, slight reaction in acid, trace good intergranular porosity, poor porosity overall, even light brown oil stain, complete pale green gold fluorescence, slow fair streamer cut, fair show, good sample.

4530 - 4540 Shale: medium gray, noncalcareous, platy; trace of Sandstone: white, very fine to fine grained, poor sorting, white calcareous cement, no porosity, no show.

4540 - 4550 Shale: as above; trace of Sandstone: white, very fine grained, no porosity, no show.

4550 - 4560 Shale: medium brown, dolomitic, oil shale.

4560 - 4570 Shale: light gray, platy; Sandstone: white, light gray, very fine grained, no porosity, rare black residue speck, no show.

4570 - 4580 as above; trace of Sandstone: white, very fine to medium grained, poorly sorted, sub angular to sub round, white clay cement, no porosity, no show.

**R-2 SANDSTONE 4582' (+786')**

4580 - 4590 Sandstone: tan, very fine grained, well sorted, sub angular quartz grains, trace visible porosity, light tan oil stain throughout, few specks of dark brown oil, pale fluorescence, instant weak streamer cut, fair to good show; Sandstone: light gray, very fine grained, argillaceous, no porosity, no show.

4590 - 4600 trace of Sandstone: with show as above; Sandstone: light gray, as above, trace of poor sorting at base, with no porosity, no show; Shale; medium brown, light gray.

4600 - 4610 Shale: dark brown, oil shale; trace of Sandstone: white, light gray, no porosity, no show, few pellets dark gray, oblong to round.

4610 - 4620 Siltstone: light gray, argillaceous; Shale: as above; trace of Sandstone.

4620 - 4630 Sandstone: white, to light gray, no porosity; Shale: as above.

4630 - 4640 Sandstone: white, trace salt and pepper, trace glauconitic, very fine grained, calcareous cement, no porosity, no show.

4640 - 4660 Shale: light gray; Sandstone: as above, trace of poor sorting at base, no porosity, no show.

4660 - 4680 Shale: rich brown, oil shale; Shale: medium to light gray.

**R-5 SANDSTONE 4688' (+680')**

- 4680 - 4690 Sandstone: tan to light brown, very fine grained, sub angular, poor to trace of fair porosity; 10% with specks of dark brown oil, few chips bleeding dark brown oil, pale green gold overall fluorescence, instant fair to good streamer cut, fair to good show, moderate amount specks of oil on sample wash water.
- 4690 - 4700 10% Sandstone: tan, as above, fair to good show; Sandstone: light gray to white, very fine to fine grained with poor sorting in part, white calcareous cement, no porosity, no show.
- 4700 - 4710 trace of Sandstone: tan, as above; Shale: rich brown, oil shale; Sandstone: white, very fine to fine, white clay matrix, no porosity, no show.
- 4710 - 4720 Shale: gray, brown, waxy, oil shale.
- 4720 - 4740 Shale: dark brown, gray brown, waxy, oil shale.
- 4740 - 4760 Siltstone: light gray, argillaceous, slightly calcareous; Sandstone: very fine grained, sub angular, trace fine grains, fair to good sorting, no porosity, no show; Shale: light gray.
- 4760 - 4770 Sandstone: light gray, white, very fine to fine, trace micaceous, poor to fair sorting, white calcareous cement, no porosity, trace of light brown oil stain, very weak cut, poor show; trace of Shale: brown.
- 4770 - 4780 Siltstone: light gray, argillaceous; Shale: light gray, light tan, platy.
- 4780 - 4790 Shale: as above; with Sandstone: white, light gray, very fine grained, no porosity, no show.
- 4790 - 4800 Sandstone: light tan, fine grained, sub angular, no visible porosity but many loose grains, several few grain clusters with light tan oil stain, pale fluorescence, slow weak streamer cut, poor to fair show.
- 4800 - 4820 Sandstone: light gray, very fine to fine grained, poor sorting, micaceous, white clay cement, some very fine grained, argillaceous, no porosity, no show; Shale; light gray.
- 4820 - 4830 Shale: medium brown, waxy, oil shale; Shale: light gray, as above; trace of Sandstone: light gray, very fine grained, no porosity.
- 4830 - 4870 Shale: dark brown, waxy, oil shale.
- 4870 - 4890 Shale: as above; trace of Sandstone: light tan, very fine grained, no visible porosity, light tan oil stain, few brown oil specks, pale fluorescence, weak streamer cut, slight oil odor in fresh caught sample; Shale: as above predominate.

### G-1 SANDSTONE 4886' (+482')

- 4890 - 4900 Sandstone: light brown, very fine to fine, trace medium grains, poor to fair sorting, sub angular to sub round, poor to fair porosity, moderately friable, light brown oil stain throughout, numerous specks of dark brown oil, pale green gold complete fluorescence, immediate fair to good streamer cut.
- 4900 - 4910 Shale: light gray, dolomitic, platy; Shale: light to dark brown, oil shale; trace of Sandstone: light gray to white, very fine grained, siliceous, no porosity, no show.
- 4910 - 4950 Shale: rich brown, waxy, oil shale; Shale and Sandstone: as above, more sand towards base.

### G-3 SANDSTONE 4948' (+420')

- 4950 - 4960 Sandstone: medium brown, very fine to fine grained, well sorted, friable, good brown oil saturation with abundant droplets of heavy dark brown oil, pale fluorescence, instant fair to good streamer cut.
- 4960 - 5000 Shale: light gray, dolomitic; Shale: medium brown, oil shale; trace of Sandstone: white, very fine grained, silty, no porosity, no show.
- 5000 - 5010 Shale: light gray; trace light tan; trace of Siltstone: light gray, argillaceous, platy.
- 5010 - 5020 trace of Sandstone: tan, very fine grained, well sorted, light oil stain, with few specks dark brown oil, no porosity, no fluorescence, weak streamer cut; Shale: rich brown, oil shale; Shale: gray, as above.
- 5020 - 5040 Shale: light gray, trace light brown.
- 5040 - 5060 Shale: dark brown, waxy, oil shale.
- 5060 - 5080 Shale: dark brown, as above; Shale: light gray; trace of Sandstone: white, very fine to trace medium grains, few gray grains, poorly sorted, white clay cement, no porosity.
- 5080 - 5090 Sandstone: medium brown, very fine to fine grained, well sorted, no visible porosity, moderately friable, good brown oil saturation, trace oil specks, fair to good streamer cut, no fluorescence, few drops of dark brown oil; with Sandstone: white, no porosity, no show.
- 5090 - 5100 as above, with decrease in show sand; Sandstone: white, light gray, very fine to fine to medium grained, poorly sorted, no porosity, white noncalcareous cement, no show.
- 5100 - 5120 Shale: light gray; few beads of dark brown free oil on random chips; trace of Sandstone: white, very fine to medium grain, poorly sorted, white clay cement, no porosity.
- 5120 - 5140 Shale: dark brown to gray brown, oil shale; trace of Shale: rich brown, waxy, oil shale.

- 5140 - 5160 Shale: medium to dark gray, slight change in texture.
- 5160 - 5170 Siltstone: light gray, argillaceous, dolomitic cement; Shale: light gray; Shale: black very carbonaceous, floats; 10% Sandstone: medium to dark brown, very fine grained, well sorted, well saturated with brown oil stain and droplets of dark brown oil, pale fluorescence, immediate fair to good streamer cut, fair to good show.
- 5170 - 5180 Shale: dark brown, trace black, trace silty, oil shale, good strong immediate cut.
- 5180 - 5200 Shale: dark brown, trace black, as above, pyritic, oil shale, as above; trace of Sandstone: white, very fine grained, no porosity, no show.
- 5200 - 5210 Shale: as above; Shale: light gray, silty; Siltstone: light gray; Shale: light brown, waxy.
- 5210 - 5220 Sandstone: light gray, very fine grained, no porosity, trace black residue with weak cut, poor show; Shale: light to medium gray, silty; trace of Shale: pale green, silty; Shale: medium brown, waxy.
- 5220 - 5240 Shale and Siltstone: as above; trace of Sandstone: as above, no show; Shale: dark brown, oil shale, as above.
- 5240 - 5260 trace of Limestone: brown, micritic, argillaceous; Shale: tan, brown, gray, platy; trace of Sandstone: white, very fine grained, black shale partings, white, dolomitic cement, no porosity, no show; trace of Siltstone: pale green, calcareous, platy.
- 5260 - 5280 Shale: medium brown, oil shale; Shale and Siltstone: as above.
- 5280 - 5310 Shale: dark gray brown, carbonaceous, oil shale, silty, platy; trace of Shale: brown; trace of Sandstone: light gray, very fine grained, trace of black residue, no porosity, no show, poor sorting in part, with medium angular grains.
- 5310 - 5350 Shale: dark brown, dark black brown, dolomitic, trace silty, pyritic, no fluorescence, good strong cut, oil shale.

#### **CARBONATE MARKER 5362' (+6')**

- 5350 - 5390 Shale: light gray, noncalcareous, waxy, platy; Siltstone: light gray, very fine sandy, calcareous, platy.

#### **B-1 SANDSTONE 5392' (-24')**

- 5390 - 5400 Sandstone: very light tan to white, very fine grained, sub angular, well sorted, dolomitic cement, pyritic, no visible porosity, very light oil stain, no fluorescence, slow weak milky cut, poor show; trace of Limestone: white, amorphous, shaley, very fine sandy, no porosity, no show.

- 5400 - 5410 Sandstone: very light tan to white, as above, very fine to fine trace medium grains, poorly sorted in part, show of oil, as above.
- 5410 - 5420 Sandstone: tan, medium grained, sub angular, clear to milky quartz, unconsolidated, few friable clusters with light brown stain, light tan oil stain on most loose grains, possible good porosity, medium bright blue green overall fluorescence, instant weak streamer cut, good show, may be flushed, few crystal faces on quartz grains.
- 5420 - 5430 Sandstone: tan, as above, trace of mica, instant weak streamer cut.
- 5430 - 5440 Shale: dark brown, medium gray, trace light brown.
- 5440 - 5450 Sandstone: white, medium trace fine grains, sub angular, milky white quartz, unconsolidated with few clusters, no show; trace of Siltstone: white; trace of Shale: light to medium gray.
- 5450 - 5460 Sandstone: as above; Shale: light gray, rich brown.
- 5460 - 5480 Shale: dark brown to black oil shale; trace of Sandstone: white to light gray, fine to very fine grained, trace medium, no porosity, no show.
- 5480 - 5500 Shale: dark brown to black, increasing, oil shale, slow milky cut; trace of Siltstone: white.
- 5500 - 5510 Shale: as above, moderate amount of medium unconsolidated quartz grains, white to trace of light tan; trace of Limestone: white, amorphous, chalky.
- 5510 - 5520 Sandstone: white, fine to medium grained, unconsolidated with few clusters, no show; Shale: rich brown, oil shale; trace of Shale: light gray.
- 5520 - 5530 Sandstone and Shale: as above, with increase in Shale: light gray.
- 5530 - 5540 Shale: light gray, as above; trace of sand grains; and Shale: brown, as above.
- 5540 - 5550 Shale: dark brown to light gray, trace sand grains, as above.
- 5550 - 5570 Shale: as above; trace of Gilsonite; black shiney choncoidal fracture.

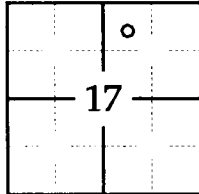
### **B-3 SANDSTONE 5572' (-204')**

- 5570 - 5580 Sandstone: very light tan wet, white when dry, unconsolidated, medium sub angular, milky, trace clear quartz grains, well sorted, medium bright blue green fluorescence, slow weak milky cut, may be flushed.
- 5580 - 5590 Sandstone: white, light gray, fine to medium grains, poorly sorted, argillaceous, no porosity, no show; trace of Sandstone: unconsolidated, as above, no show; Shale: tan, gray, dark brown.

- 5590 - 5600 Shale: dark brown to black, oil shale; Sandstone and sand: as above; Sand: unconsolidated, medium grains, white with slight tan cast, spotty fluorescence, weak milky cut.
- 5600 - 5610 Shale: dark brown to black, trace silty, carbonaceous, oil shale; Shale: light gray, light brown.
- 5610 - 5620 No sample.
- 5620 - 5630 Shale: dark brown to black, as above.
- 5630 - 5640 Sandstone: white to clear, unconsolidated, fine to medium, clear to milky quartz grains, sub angular, no show; Shale: as above; with Shale: light gray.
- 5640 - 5650 Sandstone: white, fine to medium grains, sub angular to sub round, argillaceous, poorly sorted, white clay cement, no porosity, no show; Shale: rich brown, tan gray, trace black.
- 5650 - 5660 Sandstone: white, very fine to medium grains, poorly sorted, sub angular, few gray and green inclusions, trace micaceous, white calcareous cement, no visible porosity, moderate amount loose quartz grains, very pale fluorescence in part, very weak milky cut; trace of Limestone: white, chalky, pale mineral fluorescence; Shale: light gray.
- 5660 - 5670 Sandstone: unconsolidated, fine grained, few tight clusters that are poorly sorted, no porosity, no show.
- 5670 - 5680 Shale: light gray, medium brown; trace of Sandstone: white, fine to medium grains, poorly sorted, white cement, no porosity, no show.
- 5680 - 5690 Sandstone: white, very fine, trace medium grains, poor to fair sorting, few medium frosted quartz grains, no porosity, no show; Shale: light gray, tan.
- 5690 - 5700 Sandstone: as above, with occasional green grain, moderate amount loose medium sub angular quartz grains, no show; Shale: as above.
- 5700 - 5710 Sandstone: white to light tan, fine to medium grains, few tight clusters, mostly unconsolidated grains, sub angular, medium bright fluorescence, weak milky cut, oil on wash water.
- 5710 - 5720 Shale: dark brown to black, pyritic, oil shale; Sandstone: as above, with fluorescence and cut.
- 5720 - 5730 Shale: gray, brown and black.
- 5730 - 5740 Shale: pale green, silty; with Siltstone: pale green; trace Sandstone: light gray, very fine grains, salt and pepper, argillaceous, platy.
- 5740 - 5750 Sandstone: white, light gray, very fine grains, salt and pepper, white calcareous matrix, no porosity, no show.

T.D. Driller 5750'  
T.D. Logger 5750'

# DRILL TIME LOG



Balcron Oil Co.  
31-17 Monument Federal  
NW NE Sec 17-T9S-R17E  
Duchesne Co. Utah

ELEVATIONS: GL 5360 KB 5368

SPUD: 5-9-94 10:00 AM

OUT FROM UNDER SURF.CSG.: 5-11-94 8:15 PM

DATE DRLG,COMP.: 5-18-94 11:30 PM

DATE WELL COMPLETED: Rig Release 5-20-94 4:45 AM

STATUS: To Complete as Oil Well

SURF.CSG.: 8 5/8" @ 355' w/ 225 sx.

PRODUCTION CSG.: 5 1/2" @ 5742 w/440 sx.

CORES: None

DRILL STEM TESTS: None

CONTRACTOR: Union Drilling

RIG: #17

MAST: Pulls Doubles

POWER:

PUMPS: Gard- Den FXN 5 1/2" X 14"

DRILL PIPE: 4 1/2" X Hole

COLLARS: 18 (552') 6" X 2 3/8"

MUD SYSTEM: Air Mist to 3852, KCLH<sub>2</sub>O to T.D.

TOTAL BITS: 2

TOTAL DAYS TO LOG POINT: 8 TO COMPL.: 10

T.D. DRILLER: 5750' LOGGER: 5750'

PENETRATION: 388' into Wasatch fm.

FRANK A. RADELLA, INC.

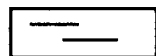
Oil & Gas Exploration & Consulting  
1610 Lewis Suite 202E  
Billings, Montana 59102

FRANK A. RADELLA  
Ofc. 406-245-5375

Res. 656-7215



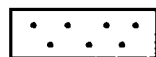
# Legend



SHALE



SILTSTONE



SANDSTONE



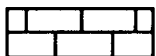
CONGLOMERATE



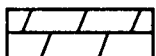
COAL



CHERT



LIMESTONE



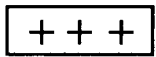
DOLOMITE



ANHYDRITE



GYPSUM



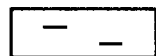
SALT



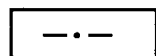
OOLITIC



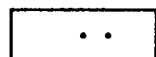
PELLETAL



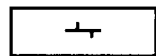
ARGILLACEOUS



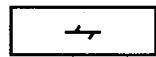
SILTY



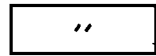
SANDY



CALCAREOUS



DOLOMITIC



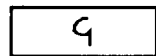
ANHYDRITIC



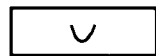
GYPSIFEROUS



LOOSE SAND GRAINS



GLAUCONITIC



MICACEOUS

LOGGED BY GEOLOGIST: Frank A. Radella

POROSITY

SHOWS



POOR



FAIR



GOOD



CONTINUED



FRACTURED



DEAD OIL

LOG TOPS ARE NOTED BELOW

GAMMA RAY TRACED & ADJUSTED  
10 TO 20' TO MATCH DRILL TIME  
FROM 1400' TO 3842'

GREEN RIVER 1420

1400

(+3948)

DRILL TIME TOTAL MIN. TO DRILL 5 FT.

VERT SCALE 2"=5 FT.

1 2 3 4 5 6 7 8 9 10 12 14 16 18 20

Sh: marl, platy, oil shale,  
milky cut intensifies  
w/ time

Dol: tan, micritic, platy,  
no por, pale gold fluid  
milky to blk firm cut

Cuttings are extremely  
fine and uniform  
Drilling with air/mist  
Sample quality very  
good

ls: lt to dk pink-tan,  
micro xlt, micritic,  
dolomitic, marly, argil  
nifer, slt fair milky  
cut

NO. 101 3355

MAILED IN N.Y.

RECORDING CH

Sh. pale rd-brn,  
ls: pale rd-brn, micritic,  
argill, pity.  
S.S. wh, v. gr, calc.

Sh. dk gry brn wet, dk  
gry dry, limy, waxy  
instant milky cut  
builds w/ time.

ls: wh, micro xln

Sh. dk gry brn, few chips  
bleeding dk brn oil, pale  
old fluid, inc. in cut to  
four milky cut

S.S. wh, v. gr, Navis  
por, lt tan oil bitn,  
few int gran specks  
of dk brn oil

ls: lt tan, micritic,  
tr sandy, pyritic,  
w/ ls:

S.S. lt tan, v. gr,  
ar. calc, pyritic

S.S. lt tan, v. gr,  
large gr, few  
tight clusters,  
light oil str,  
good cut

Sh. dk gry brn,  
limy

S.S. tan, a/a good  
cut, mod a/a  
loose gr.

S.S. wh, tan, lt gry,  
v. gr, tr and  
dk gry incl. ls, no  
vis por, tan ls oil  
str, no fluor, slt  
fair str cut  
Sh. gry brn dk brn,  
waxy, oil shale

2200

2300

2400

2500

2600

2700

2800

SS wh, lt gr, tr  
tan, v f gr, few  
gr, gr, tr loose  
or, dolc, no por,  
wk to fair shn  
cut, grades to  
gr, argill s.s.  
ls: wh, micro xln  
sh: tan, gray brn,  
dolc, few beads  
of dk brn oil, wk  
milky cut.  
sh: tan  
ls: wh, v f sand, g/k

SS gr, tan wh,  
v f gr, few blk gr  
p f srt, dolc,  
micaceous, purit  
argill in prt.  
sh: m gr, sandy  
dolc, strong milky  
cut  
ls: wh, micro xln,  
sandy, strong  
milky cut

ls: wh, micro xln,  
tr bleeding dk brn  
oil from pp vugs

SS: wh, tan, v f gr,  
w srt, tr purit  
no v s por, srt  
blk oil shn. wk  
sh: dk gr, brn,  
+ srt cut

ls: wh, crm, micro  
xln, micritic,  
pity.

ls: wh, micritic  
pity, dk brn  
crypto xln.

ls w sh: m gr,  
pity

ls: tan, micritic  
to amorph, sub  
chky, in prt

ls: crm, tan  
amorph, chky.

sh: dk grn, dolc,  
pity, no cut.

sh: m gr, dolc,  
pity w  
ls: wh, aya.

2900

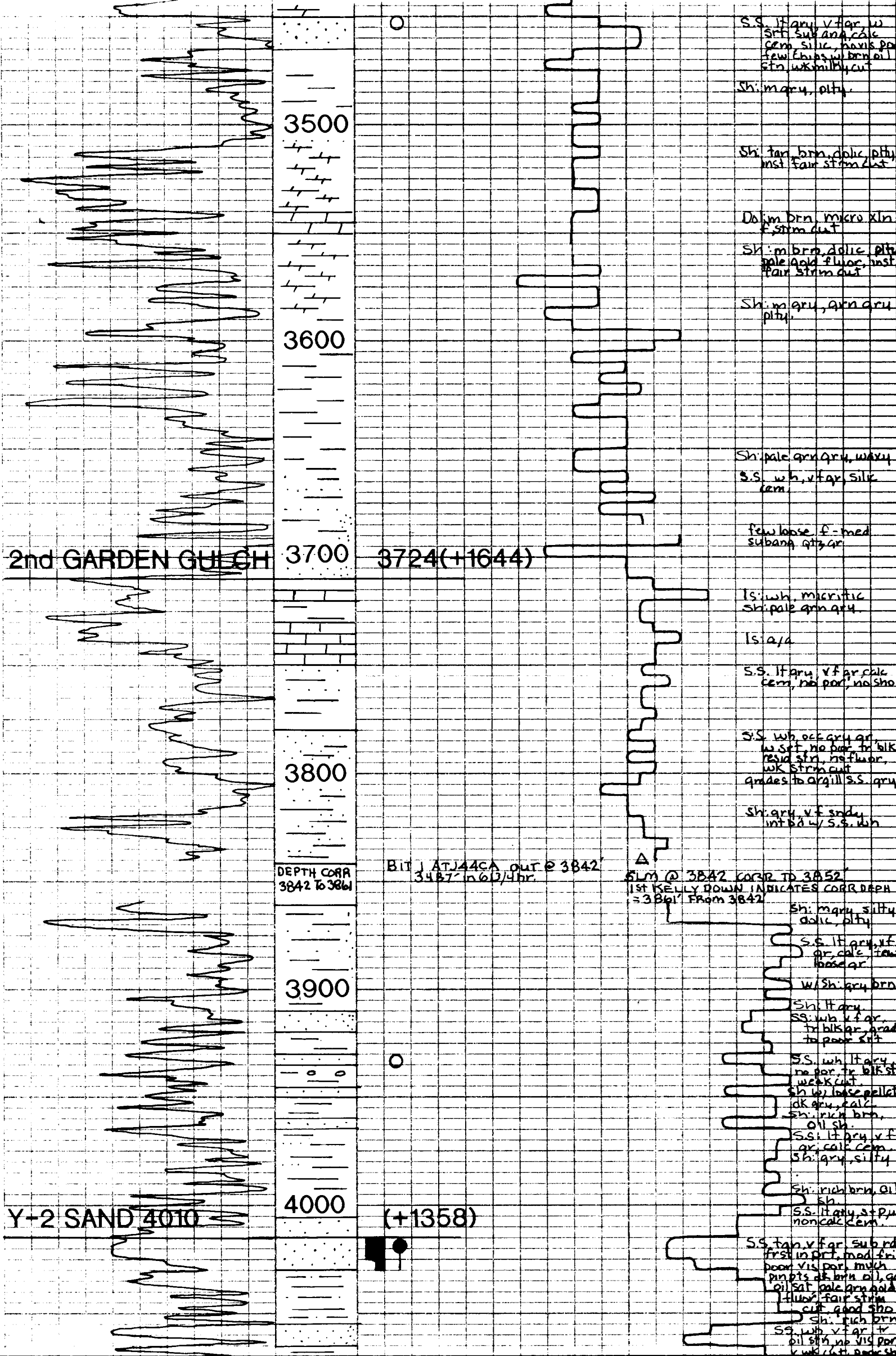
3000

3100

3200

3300

3400



S.S. lt gray, v. far, w  
srt. sub ang. calc  
Germ. silic, basis por  
few chips w/ brn oil  
str. weakly cut

Sh. m. gray, oily

Sh. tan, brn, dol. oily  
inst. fair str. cut

Dol. m. brn, micro xln  
f. str. cut

Sh. m. brn, dol. oily  
pale gold fluor, inst  
fair str. cut

Sh. m. gray, grn. gray  
oily

Sh. pale grn. gray, waxy

S.S. wh, v. far, silic  
cem.

few loose f-med  
subang. qtz. gr.

Is. wh, micritic  
sh. pale grn. gray

Is. a/a

S.S. lt gray, v. far, calc  
cem, no por, no sho

S.S. wh, off gray, gr  
w. set, no por, to blk  
resid. str, no fluor  
wk str. cut  
grades to argill. S.S. gray

Sh. gray, v. f. sandy  
int. bed w/ S.S. wh

SLM @ 3842 CORR TO 3852'  
1st KELLY DOWN INDICATES CORR DEPTH  
= 3861' FROM 3842

Sh. m. gray, silty  
dol. oily

S.S. lt gray, v. f  
gr. calc, base gr

W/ Sh. gray, brn

Sh. lt gray  
S.S. wh, v. far  
to blk. gr. grades  
to poor str.

S.S. wh, lt gray  
no por, to blk str  
weak cut

Sh. w/ base pellets  
ok gr, calc  
sh. rich brn  
oil sh.

S.S. lt gray, v. f  
gr, calc, cem  
Sh. gray, silty

Sh. rich brn, oil  
sh.

S.S. lt gray, s. p. m  
non calc cem.

S.S. tan, v. far, sub rd  
frst in prt, mod fr  
poor vis por, much  
pimples of brn oil, ga  
oil sat, pale grn. gold  
fluor, fair str  
cut good sh

Sh. rich brn

S.S. wh, v. far, to  
oil sh, no vis por  
weak cut, poor str

sh. rich brn  
sh. silty sh. to  
loose v. f. qtz  
gr.

4100

VERT. SCALE CHANGE

DRILL TIME TOTAL MIN TO DRILL 2 FT.

VERT SCALE 5"=100 FT.

1 2 3 4 5 6 7 8 10 14 18  
9 12 16 20

50

sh. m. gry, silty, calc.  
ply w/

ss. lt. gry, v. f. qtz, calc. cem.  
navis por. to loose med  
qtz, gr, ang, clc

3900

tr sh. dk brn  
sh. lt. gry, silty, calc.

ss. wh. v. f. qtz, tr blk. qtz,  
grades to poorly sorted  
ss, wh. calc. cem.

sh. lt. gry, silty

ss. wh. lt. gry, v. f. qtz, navis  
por, tr blk. silty, weak out  
loose pellets dk. gry, fine  
to coarse, oblong to rd,  
calc. w/ sh. rich brn

ss. lt. gry, v. f. qtz, wh. calc. cem.

sh. lt. gry, silty to v. f. sandy

ss. lt. gry, a. d.

sh. gry, silty, dk. brn oil  
sh.

sh. rich brn, oil sh.

ss. argill

ss. lt. gry, st. p, wh. non calc.  
cem.

ss. tan, v. f. qtz, sub ang. to  
sub rd, flat in part, med.

50

4000

Y-2 SAND 4010

(+1358)

PRINTED IN U.S.A.

RECORDING CHART

GRAPHIC CONTROLS CORPORATION

BUFFALO, NEW YORK

NO. LC1 3355

PRINTED IN U.S.A.

RECORDING CHART

Y-3 SAND 4056

50

0 (+1312)

4100

50

4200

50

dk brn oil wet, few chips  
hd oil, tan evr call stain  
dry, oiled oil sat, pale grn  
gold, fluor, slow fair str  
cut, free oil specks on wash  
water

SS wh, vt-fgr, subang, poor  
srt, wh non cal cem  
w/ siltstn: pale grn qtz

Sh: rich brn, oil sh

SS wh, vt-fgr, w srt, subang,  
tr lt tan oil sh, poor show  
mod amt loose vt-fgr  
subang qtz, gr

Sh: rich brn oil sh

SS grn, vt-fgr, arg, poor srt

Sh: lt grn to brn, w/ siltstn  
tr s.s. lt grn to wh, part

Sh: grn brn, silty, non cal,  
pty. mod amt loose gr

Sh: grn brn, silty, sh tan,  
m brn, oil sh, siltstn:  
pale grn grn, vt-fgr, sandy  
trashy

Sh: tan grn, mod amt loose  
vt-fgr, few loose  
whole ostracods

Sh: lt grn, silty, grades to  
siltstn: lt grn, argill

SS: wh, vt-fgr, silty, silic.  
argill  
Sh: lt grn

Sh: m grn, brn grn, non  
cal, sh: m brn q/a

S.S. wh, vt-fgr, tr-fgr,  
subang, tr-fgr, pale  
cem, silic mprt

Sh: brn, oil sh  
siltstn: lt grn, puritic

S.S. wh to lt grn, argill, tr  
dk brn res, v. cut  
tr ostracods

Sh: dk brn to grn brn, tr  
silty, oil sh

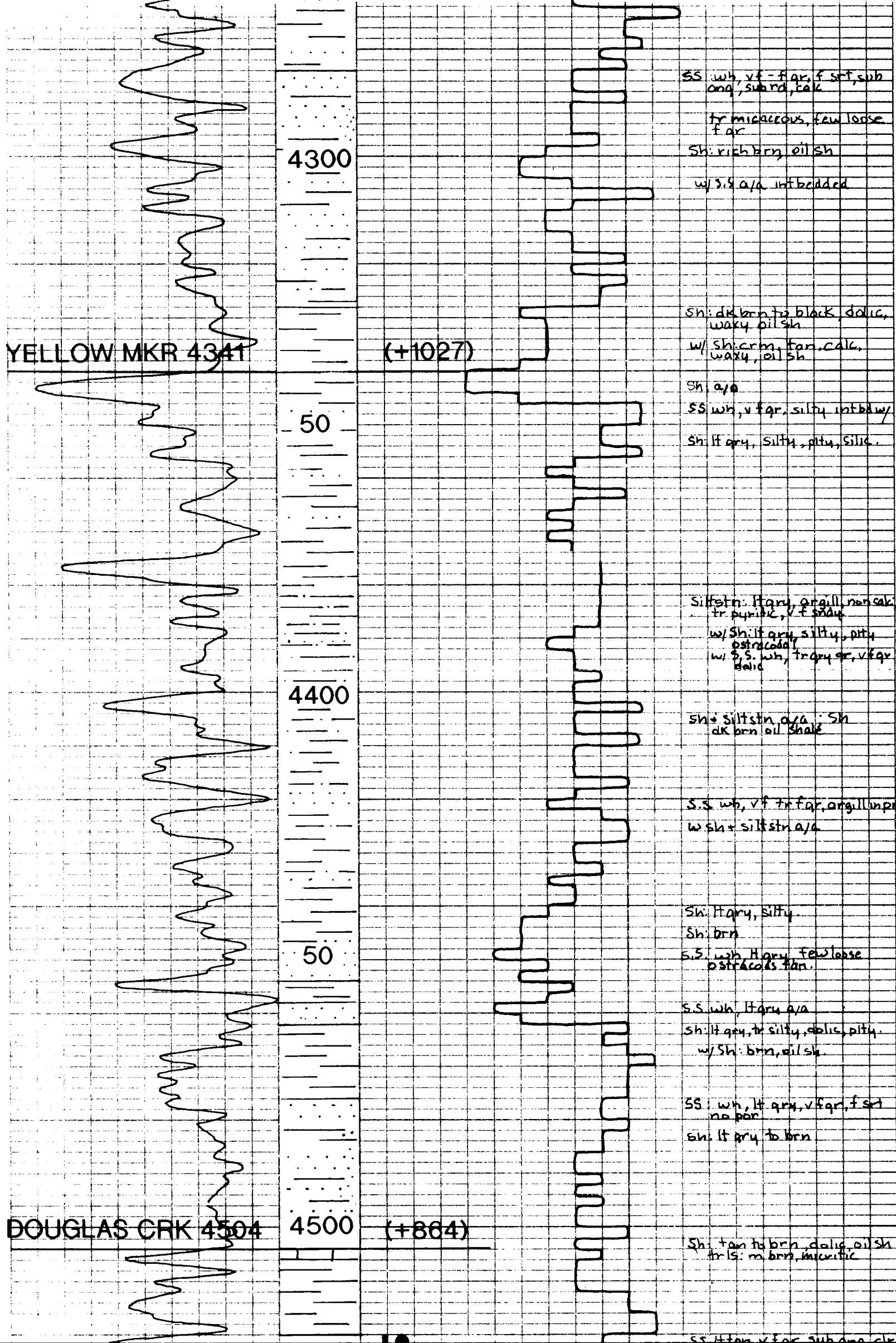
Sh: lt grn grn  
Dol: tan, micritic, pty.  
tr ostracods

SS: wh, vt-fgr, silic, tr-prt  
plane w/ blk res

Sh: lt grn, silty, sandy, interw

SS: wh, lt grn, vt-fgr, subang  
subang, calc cem





gr. gr. w. srt, tr. ad. poor, poor,  
even. lt. brn. oil stn. comp.  
pale grn. gold + fluor. slow f  
stn. cut, fair show

sh. m. gr. y, non calc, p. ty.

ss. wh, v. f. gr, no por

sh. m. brn, dol. c, oil sh

sh. lt. gr. y, p. ty

s. s. wh, lt. gr. y, v. f. gr, no por,  
tr. blk. residue

sh. lt. gr. y

s. s. wh, v. f. m. gr. poor srt  
subang, subrd, wh. clay, cem

ss. tan, v. f. gr, w. srt, subang  
oil stn. poor, lt. tan  
oil stn. poor, few specks  
dk. brn. oil, pale fluor. wet  
wh. stn. cut, f. qd. show  
w/ ss. wh, tight, poor srt

sh. dk. brn. oil sh, tr. ss. a/a  
few loose dk. gr. y pellets  
oblong, to rd.

sh. stn. lt. gr. y, argill

ss. wh, lt. gr. y

ss. wh, tr. s. p, tr. glau.

sh. lt. gr. y

s. s. a/a poor srt, no por

sh. m. lt. gr. y

sh. rich brn, oil sh.

ss. tan to lt. brn, v. f. gr, sub  
ang, light tan oil stn.  
to 14 w/ oil specks wet, tr.  
bleeding oil, pale grn. gold f.  
inst. f. qd. stn. cut, f. qd. show

s. s. tan a/a f. qd. show  
w/ wh. calc. cem. tight

sh. rich brn, oil sh.

ss. wh, v. f. f. gr, wh. clay, m. ty

sh. gr. y brn, waxy oil sh.

sh. dk. brn, gr. y brn oil sh.

s. s. wh, v. f. gr - tr. f. gr, f. qd.

sh. stn. lt. gr. y, argill

sh. lt. gr. y

ss. lt. gr. y, wh, v. f. f. gr, tr. mica  
PF srt, wh. calc. cem. tr. lt. tan  
oil stn. v. wh. cut

ss. a/a

R-2 SAND 4582

(+786)

4600

50

R-5 SAND 4688

(+680)

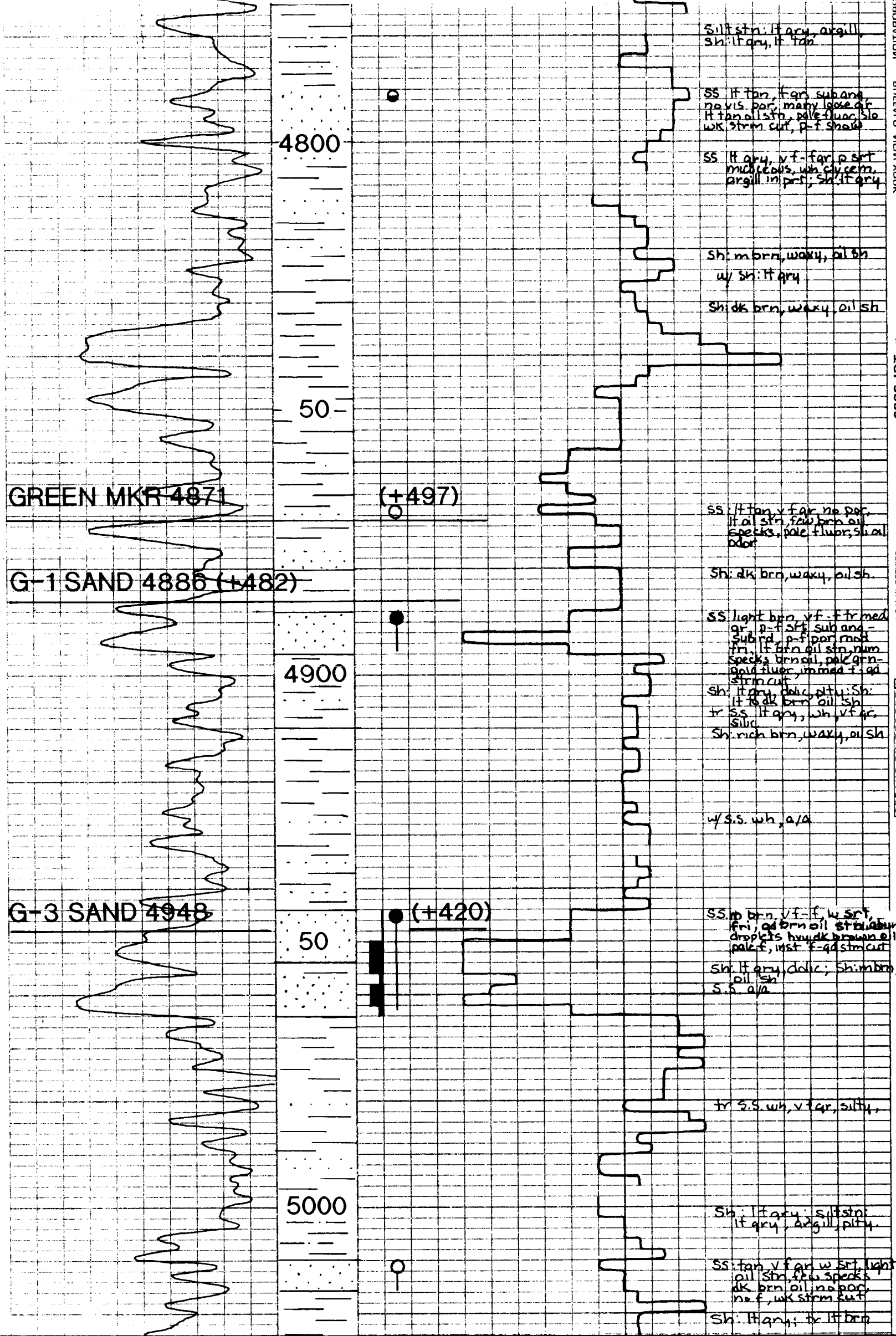
4700

2nd DOUGLAS CREEK

4738 (+630)

50





Sh: dk brn, waxy, oil sh

Sh: a/a tr S.S. wh, v. far,  
few gr. or p. srt,  
wh clay cemSS: m brn, vt-far, w srt  
no vis. por, mod fri. qd  
brn oil sat, tr oil specks  
f-qd strong cut, no fluor  
few drops dk brn oil

Sh:

SS: wh, lt gr, vt-far, mqr  
poor srt, no showSh: lt gr, few beads dk  
brn, trace oil on random  
chipsSS: wh, vt-mqr, p.srt  
wh clay cem

Sh: dk brn, gry brn, oil sh

w/ sh: rich brn, waxy

Sh: m-dk gry, silty chg  
in tex.SS: m-dk brn, vt-far, w  
srt, w sat brn oil sh,  
droplets dk brn oil, p  
fluor, immed f-qd strong  
f-qd showSh: dk brn, tr blk, tr silty  
oil sh, good strong  
instant cutSh: a/a purpl.  
tr S.S. wh, v. far, no porSh: lt gr, silty w/ siltstn  
lt gr + sh lt brn, waxyS.S. lt gr, v. far, no por,  
tr blk ves w/ wk cut  
w/ siltstn; sh: pale grn

Sh: + siltstn a/a tr S.S.

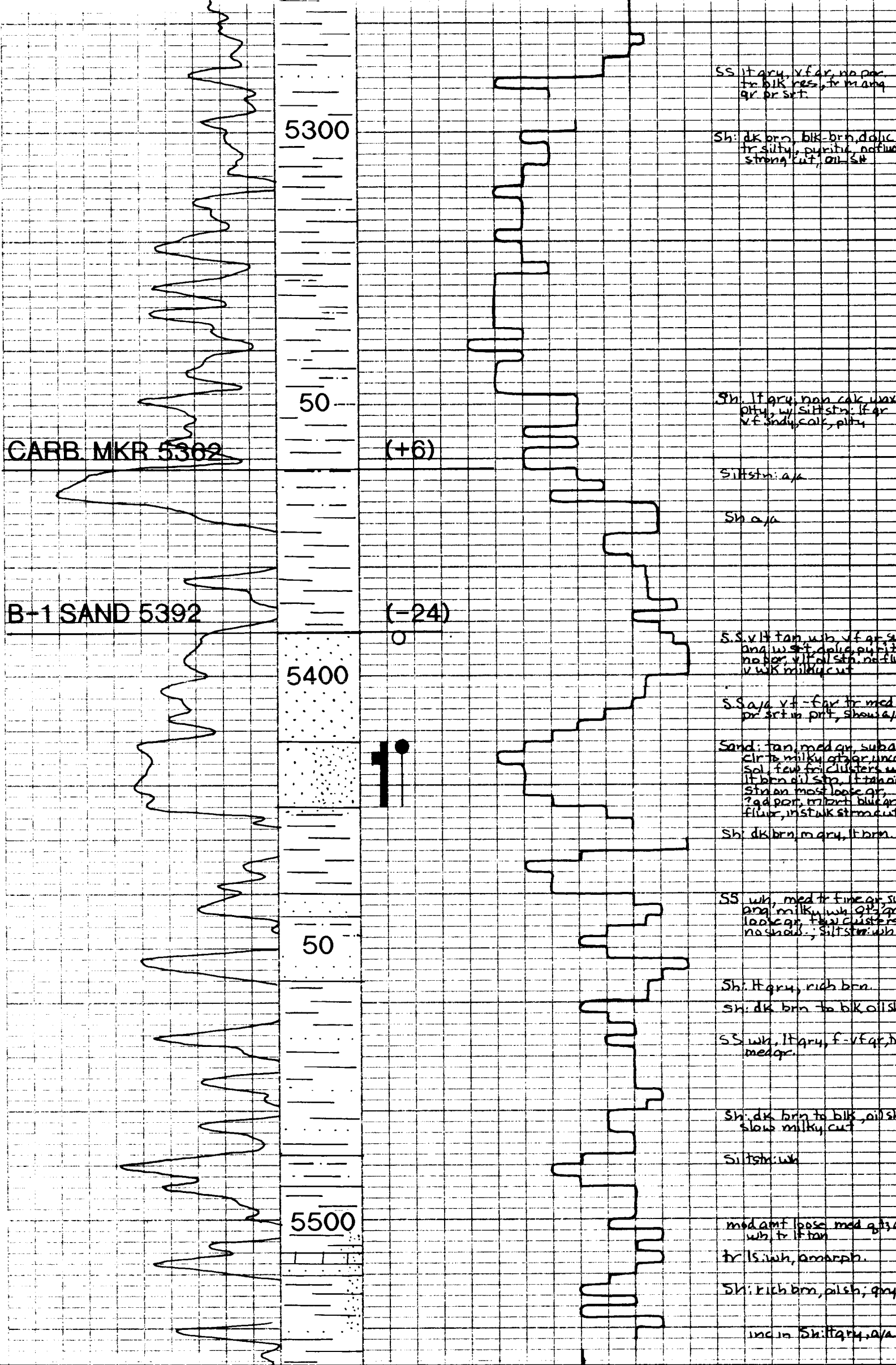
tr ls: brn, micritic, argill

Sh: tan, brn, gry, pty

tr S.S. wh, v. far, blk sh  
prt, w/ dark, cem, w  
tr siltstn: pale grn, calc  
pty

Sh: m brn, oil sh

Sh: dk gry brn, carb oil sh  
silty, pty, sh brn



B-3 SAND 5572

(-204)

50

5600

No  
SAMPLE

50

5700

50

Sh: a/a to Gibsonite: blk,  
shiny, chondal frag

S.S. v. lt tan, wet, white  
dry, uncongl med sub  
and qtz, gr, w. srt.  
m br blue grn fluor slo  
wk milky cut, flushed?  
S.S. wh. lt gr, f-m gr  
p srt, argill

Sh: dk brn to blk oil sh

Sh: dk brn to blk, oil sh

Sh: a/a

Sand: white clear f-med  
base qtz, gr, no show  
Sh: lt gr

S.S. w. f-m gr, subang-  
subind, argill, p srt  
wh clay cem

S.S. a/a to mica, wh calc  
cem, mod gnt loose  
gr, v pale fluor, v wk cut  
to ls: wh chky

Sand: fgr, loose gr, tr hite  
clust w/ poor srt, wh cem

S.S. wh, p srt

Sh: lt gr, m brn

S.S. wh, v f to med gr, p-f  
srt  
occasional green gr

S.S. wh to lt tan f-m gr,  
few tight clust, mostly  
loose gr, subang, m br  
fluor, wk milky cut, oil  
on wash water  
Sh: dk brn to blk, quartz,  
oil sh

Sh: gr, brn, blk

Sh: pale grn, silty, silty  
pale grn

S.S. wh, lt gr, s.p.,  
wh calc cem, no  
per, no show

TD DRL & LOGGER 5750

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Equitable Resources Energy Company, Balcron Oil Division

3. Address and Telephone No.

P.O. Box 21017; Billings, MT 59104 (406) 259-7860

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

NW NE Section 17, T9S, R17E  
660' FNL, 1980' FEL

5. Lease Designation and Serial No.

UTU-72106

6. If Indian, Allottee or Tribe Name

n/a

7. If Unit or CA, Agreement Designation

Jonah Unit

8. Well Name and No.

Balcron Monument Fed. #31-17

9. API Well No.

43-013-31428

10. Field and Pool, or Exploratory Area

Monument Butte/Green River

11. County or Parish, State

Duchesne County, UTAH

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent  
☒ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other oil spill  
☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

A spill of approximately 6 B0 occurred on this location June 20, 1994, due to a tank flowing over. All was contained within the dike. Cleanup is being done by backhoe and the oily dirt will be taken to Annick Enterprise for disposal. Cleanup should be done by June 21, 1994.

Notice of this oil spill is being FAXed to the following:

Bureau of Land Management, Vernal District (Attention: Jamie Sparger)  
Utah Division of Oil, Gas and Mining (Attention: Jim Thompson)

14. I hereby certify that the foregoing is true and correct

Signed Bobbie Schuman

Title Regulatory and Environmental Specialist

Date June 20, 1994

(This space for Federal or State office use)

Approved by \_\_\_\_\_

Title \_\_\_\_\_

Date \_\_\_\_\_

Conditions of approval, if any:

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other	5. Lease Designation and Serial No. UUU-72106
2. Name of Operator Equitable Resources Energy Company, Balcon Oil Division	6. If Indian, Allottee or Tribe Name n/a
3. Address and Telephone No. P.O. Box 21017, Billings, MT 59104 (406) 259-7860	7. If Unit or CA, Agreement Designation n/a
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 660' ENL, 1980' FEL NW NE Section 17, T9S, R17E	8. Well Name and No. Balcon Monument Federal #31-17
	9. API Well No. 43-013-31428
	10. Field and Pool, or Exploratory Area Monument Butte/Green River
	11. County or Parish, State Duchesne County, Utah

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other Site Security Diagram
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Attached is the Site Security Diagram for this well.

14. I hereby certify that the foregoing is true and correct

Signed Bobbie Schuman Title Regulatory and Environmental Specialist Date 6-29-94

(This space for Federal or State office use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

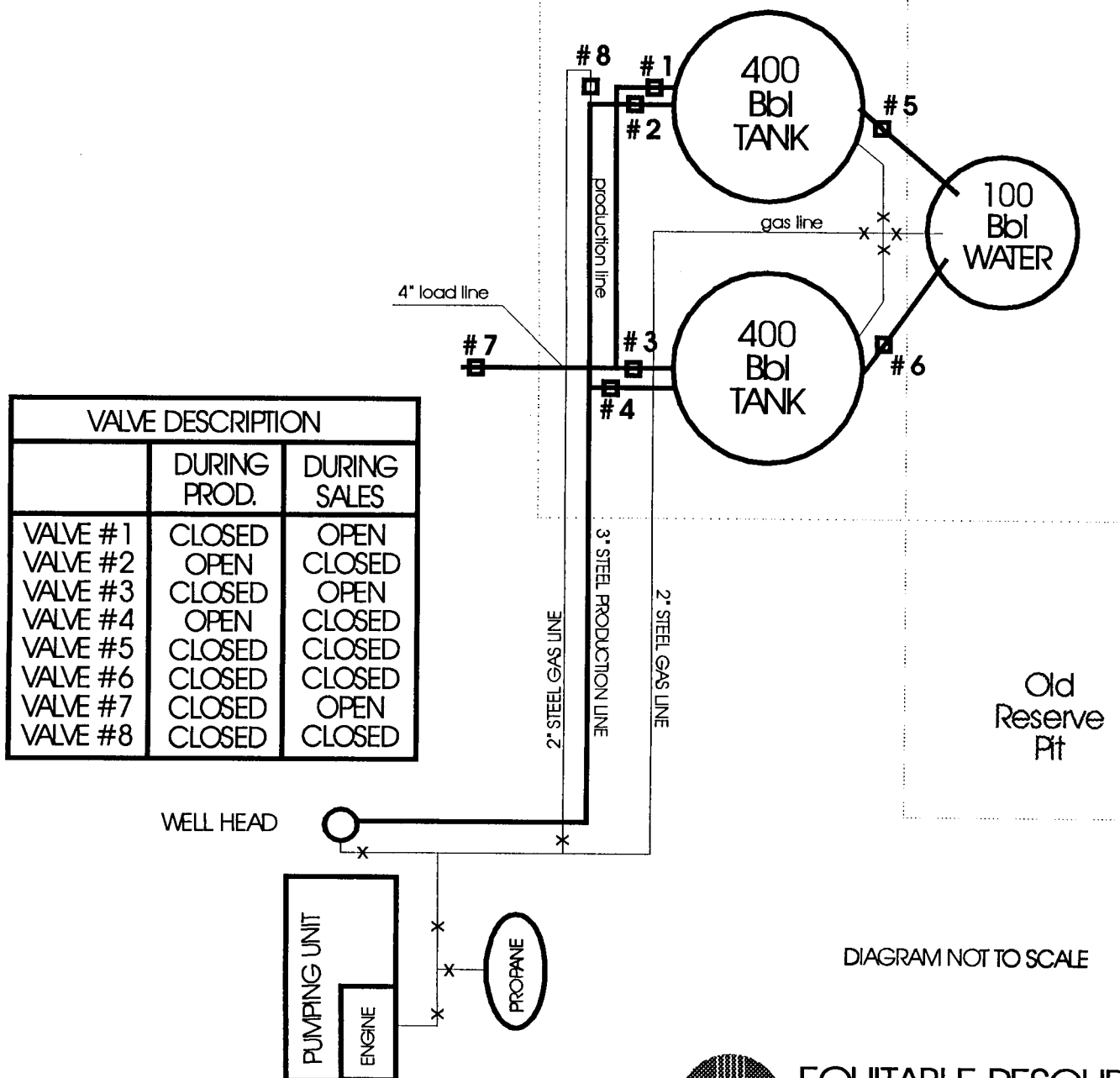
\*See Instruction on Reverse Side

# Equitable Resources Energy Company Balcron Monument Federal 31-17 Production Facility Diagram

Balcron Monument Federal 31-17  
NW NE Sec. 17, T9S, R17E  
Duchesne County, Utah  
Federal Lease #UTU-72106  
660' FNL, 1980' FEL

NORTH

Dike



Old Reserve Pit

DIAGRAM NOT TO SCALE



EQUITABLE RESOURCES  
ENERGY COMPANY

BALCRON OIL DIVISION

1601 Lewis Avenue  
P.O. Box 21017  
Billings, MT 59104-1017  
(406) 259-7860

ACCESS  
ROAD

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

**SUBMIT IN TRIPLICATE**

5. Lease Designation and Serial No.

UIU-72106

6. If Indian, Allottee or Tribe Name

n/a

7. If Unit or CA, Agreement Designation

n/a

8. Well Name and No.

Balcron Monument Federal #31-17

9. API Well No.

43-013-31428

10. Field and Pool, or Exploratory Area

MonumentButte/Green River

11. County or Parish, State

Duchesne County, Utah

1. Type of Well  
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator  
Equitable Resources Energy Company, Balcron Oil Division

3. Address and Telephone No.  
P.O. Box 21017, Billings, MT 59104 (406) 259-7860

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
660' FNL, 1980' FEL

NW NE Section 17, T9S, R17E

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent  
☒ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other Onshore Order #7  
☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Any water produced by this well will be held in a produced water tank and trucked to a commercial disposal facility. The primary facility to be used is the R.N. Industries produced water disposal facility located in Section 9, T2S, R2W in Duchesne County, Utah. A copy of the State-issued permit for that facility is on file at the Vernal Bureau of Land Management. If for some reason the operator is unable to use this primary disposal facility, the produced water will be trucked to another State-approved disposal facility. If applicable, Operator has received approved Right-of-Way access to this well location for the Vernal Bureau of Land Management.

**Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY**

14. I hereby certify that the foregoing is true and correct

Signed Bobbie Schuman

Regulatory and  
Title Environmental Specialist

Date 6-29-94

(This space for Federal or State office use)

Approved by [Signature]  
Conditions of approval, if any:

Title

Date

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*See Instruction on Reverse Side



1. Well name and number: Balcron Monument Federal #31-17  
API number: 43-013-31428
2. Well location: QQ NW NE section 17 township 9S range 17E county Duchesne
3. Well operator: Equitable Resources Energy Company, Balcron Oil Division  
Address: P.O. Box 21C17 phone: (406) 259-7860  
Billings, MT 59104
4. Drilling contractor: UnionDrilling  
Address: Drawer 40 phone: (304) 472-4610  
Buckhannon, WV 26201

5. Water encountered (continue on reverse side if necessary)

Depth		Volume (flow rate or head)	Quality (fresh or salty)
from	to		
		<b>No measurable water encountered during drilling operations.</b>	

6. Formation tops: Geological Report submitted separately.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

If an analysis has been made of the water encountered, please attach a copy of the report to this form.

I certify that this report is true and complete to the best of my knowledge.

Name Bobbie Schuman Signature Bobbie Schuman  
Title Regulatory and Environmental Specialist Date 6-29-94

Comments:

November 1983)  
(formerly 9-330)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE\*

Budget Bureau No. 1004-0137  
Expires August 31, 1985

WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

5. LEASE DESIGNATION AND SERIAL NO.

UUU-72106

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

n/a

7. UNIT AGREEMENT NAME

r/a

8. FARM OR LEASE NAME

Balcon Monument Federal

9. WELL NO.

31-17

10. FIELD AND POOL, OR WILDCAT

Monument Butte/Green River

11. SEC., T., R., N., OR BLOCK AND SURVEY OR AREA

NW NE Section 17, T9S, R17E

12. COUNTY OR PARISH

Duchesne

13. STATE

Utah

1a. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ Other \_\_\_\_\_

b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. REMOV. ☐ Other \_\_\_\_\_

2. NAME OF OPERATOR

Equitable Resources Energy Company, Balcon Oil Field

3. ADDRESS OF OPERATOR

P.O. Box 21017, Billings, MT 59104

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*

At surface 660' ENL, 1980' FEL

At top prod. interval reported below

At total depth

DIVISION OF

OIL, GAS & MINING

14. PERMIT NO. 43-013-31428

12-20-93

15. DATE SPUDDED 5-8-94 16. DATE T.D. REACHED 5-19-94 17. DATE COMPL. (Ready to prod.) 6-13-94 18. ELEVATIONS (OF, RKB, RT, OR, ETC.)\* 5359.8' GL, 5369.8' KB 19. ELEV. CASINGHEAD n/a

20. TOTAL DEPTH, MD & TVD 5750' 21. PLUG BACK T.D., MD & TVD 5697.35' 22. IF MULTIPLE COMPL., HOW MANY? n/a 23. INTERVAL DRILLED BY Sfc - TD n/a

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\* 5585' - 4014' Green River 25. WAS WELL CORED No

26. TYPE ELECTRIC AND OTHER LOGS RUN DLL - MSFL - CND MUD LOG 5-27-94 27. WAS WELL CORED No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	24#	355' KB	12-1/4"	225 sxs Class "G" + additives	n/a
5-1/2"	15.5#	5741.98' KB	7-7/8"	165 sxs Thrifty-Lite and 275 sxs 50-50 PZ	n/a

29. LINER RECORD					30. TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
n/a					2-7/8"	5650.78' KB	n/a

31. PERFORATION RECORD (Interval, size and number)			32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
5576'-5585'	(10 holes)		DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5412'-5422'	(7 holes)			See attachment.
4014'-4025'	(4 SPF)			
4034'-4036'	(4 SPF)			

33. PRODUCTION  
DATE FIRST PRODUCTION 6-13-94 PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) 1-1/2" Insert Pump WELL STATUS (Producing or shut-in) Producing

DATE OF TEST	HOURS TESTED	CHOKER SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
6-18-94	24	n/a	→	110	n/a	17	n/a
FLOW, TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
n/a	n/a	→	110	n/a	17	34 degrees	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Used for fuel. TEST WITNESSED BY Dale Griffin

35. LIST OF ATTACHMENTS

Acid, Shot, Fracture, & Cement Squeeze Information.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED Bobbie Schuman TITLE Regulatory and Environmental Specialist

DATE 6-29-94

\*(See Instructions and Spaces for Additional Data on Reverse Side)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within his jurisdiction.

38. GEOLOGIC MARKERS						
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.			
				NAME	TOP	
			NEAS. DEPTH		TRUE VERT. DEPTH	
			No DSI's run.	Geological Report submitted separately.		

June 29, 1994

Balcron Monument Federal #31-17  
NW NE Section 17, T9S, R17E  
Duchesne County, Utah  
Attachment for Completion Report

ACID, SHOT, FRACTURE, CEMENT SQUEEZE INFORMATION

<u>Depth Interval</u>	<u>Amount and Kind of Material Used</u>
5576' - 5585' & 5412' - 5422'	500 gallons 15% HCL & 126 gallons 2% KCL water. 30,880# 20/40 sand & 21,500# 16/30 sand w/29,109 gallons 2% KCL gelled water.
4948' - 4963'	2,688 gallons 2% KCL water. 33,300# 16/30 sand w/17,366 gallons 2% KCL gelled water.
4678' - 4692'	1,722 gallons 2% KCL water. 25,000# 16/30 sand w/16,328 gallons 2% KCL gelled water.
4014' - 4036'	2,310 gallons 2% KCL water. 50,280# 16/30 sand w/27,988 gallons 2% KCL gelled water.

/mc

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

ENTITY ACTION FORM - FORM 6

OPERATOR EQUITABLE RESOURCES ENERGY  
ADDRESS BALCRON OIL DIVISION

OPERATOR ACCT. NO. H9890

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
D		11880				9S	17E		DUCHESNE		
WELL 1 COMMENTS: *BELUGA UNIT EFF 2-1-96 (SEE ATTACHED LIST OF WELLS BEING CHANGED FROM CURRENT ENTITY TO NEW UNIT ENTITY 11880).											
WELL 2 COMMENTS:											
WELL 3 COMMENTS:											
WELL 4 COMMENTS:											
WELL 5 COMMENTS:											

ACTION CODES (See instructions on back of form)

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

(3/89)

L. CORDOVA (DOGM)

Signature

ADMIN. ANALYST

2-22-96

Title

Date

Phone No. ( )

**EQUITABLE RESOURCES  
ENERGY COMPANY****BALCRON OIL DIVISION**1601 Lewis Avenue  
Billings, MT 59102  
(406) 259-7860**★FAX TRANSMITTAL★****FAX NO.: (406) 245-1365**

**TO:** NAME: Leesha  
COMPANY: Utah, Division of Oil, Gas, & Mining  
DATE: 02-21-96  
FAX #:

**FROM:** Molly Conrad  
Equitable Resources Energy Company, Balcron Oil Division  
1601 Lewis Avenue  
Billings, MT 59102  
Phone: (406) 259-7860 ext 236

**TOTAL # OF PAGES 2**  
(including this cover sheet)

If you do not receive all pages, please call back as soon as possible at (406) 259-7860.

**TELECOMMUNICATOR:** mmc

**SPECIAL INSTRUCTIONS:**

Here is a list of the Beluga Unit wells that you requested yesterday. Please let me know when you come up with an Entity Action number for them. The unit was effective 2-1-96, so I will have to change all of my records before reporting February production.

Thanks for your help!!

**NOTE:** The information contained in this facsimile message is privileged and confidential, and is intended only for the use of the individual(s) or entity name above who have been specifically authorized to receive it. If the reader is not the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone and return all pages to the address shown above. **THANK YOU.**

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
355 West North Temple, 3 Triad, Suite 350, Salt Lake City, UT 84180-1203

Page 1 of 11

## MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

BALCRON OIL DIVISION  
EQUITABLE RESOURCES ENERGY  
1601 LEWIS AVE  
BILLINGS MT 59102-4126

UTAH ACCOUNT NUMBER: N9890REPORT PERIOD (MONTH/YEAR): 12 / 95AMENDED REPORT ☐ (Highlight Changes)

Well Name			Producing Zone	Well Status	Days Oper	Production Volumes		
API Number	Entity	Location				OIL(BBL)	GAS(MCF)	WATER(BBL)
BOLL WEEVIL FED 26-13								
4301330770	00035	08S 16E 26	GRRV					
CASTLE PK ST 43-16								
4301330594	01181	09S 16E 16	GRRV					
<del>PAIUTTE FEDERAL 34-8</del>								
4301330778	01200	09S 17E 8	GRRV					
<del>MOCON FEDERAL 10-7</del>								
4301330666	01205	09S 17E 7	GRRV					
<del>PAIUTTE FEDERAL 11-17</del>								
4301330516	01210	09S 17E 17	GRRV					
<del>PAIUTTE FEDERAL 24-8</del>								
4301330675	01220	09S 17E 8	GRRV					
JORNEY FED 1-9								
4304730070	01260	09S 19E 9	GRRV					
CASTLE PK FED 24-10A								
4301330555	01281	09S 16E 10	GRRV					
HENDEL FED 1-17								
4304730059	01305	09S 19E 17	GRRV					
HENDEL FED 3-17								
4304730074	01305	09S 19E 17	GRRV					
HENDEL FED. 1-9								
4304720011	01310	09S 19E 9	GRRV					
PARIETTE BENCH FED 14-5								
4304731123	01335	09S 19E 5	GRRV					
PARIETTE BENCH UNIT 2								
4304715680	01345	09S 19E 7	GRRV					
<b>TOTALS</b>								

REMARKS:

I hereby certify that this report is true and complete to the best of my knowledge.

Date: \_\_\_\_\_

Name and Signature: \_\_\_\_\_

Telephone Number: \_\_\_\_\_

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
355 West North Temple, 3 Triad, Suite 350, Salt Lake City, UT 84180-1203

Page 2 of 11

## MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

BALCRON OIL DIVISION  
EQUITABLE RESOURCES ENERGY  
1601 LEWIS AVE  
BILLINGS MT 59102-4126

UTAH ACCOUNT NUMBER: N9890REPORT PERIOD (MONTH/YEAR): 12 / 95AMENDED REPORT ☐ (Highlight Changes)

Well Name			Producing Zone	Well Status	Days Oper	Production Volumes		
API Number	Entity	Location				OIL(BBL)	GAS(MCF)	WATER(BBL)
PARIETTE BENCH FED 41-7								
4304731584	01346	09S 19E 7	GRRV					
<del>SUE MORRIS #16-3</del>								
4301330562	01450	09S 17E 16	GRRV					
STATE 16-2								
4301330552	01451	09S 17E 16	GRRV					
K JORGENSEN ST 16-4								
4301330572	01452	09S 17E 16	GRRV					
<del>W DUNCAN ST 16-5</del>								
4301330570	01453	09S 17E 16	GRRV					
<del>PARIETTE FEDERAL 43-8</del>								
01330777	02042	09S 17E 8	GRRV					
<del>FEDERAL 16-18</del>								
4301330332	08100	09S 17E 18	DGCRK					
<del>POMCO #2</del>								
4301330505	08101	09S 17E 18	GR-WS					
<del>POMCO #4</del>								
4301330506	08102	09S 17E 17	GRRV					
<del>POMCO #5</del>								
4301330499	08104	09S 17E 17	GRRV					
PARIETTE BENCH FED 32-6								
4304731554	09885	09S 19E 6	GRRV					
PARIETTE BENCH FED 43-6								
4304731616	10280	09S 19E 6	GRRV					
<del>MAXUS FEDERAL 23-8</del>								
4301331196	10800	09S 17E 8	GRRV					
TOTALS								

COMMENTS:

I hereby certify that this report is true and complete to the best of my knowledge.

Date: \_\_\_\_\_

Name and Signature: \_\_\_\_\_

Telephone Number: \_\_\_\_\_



STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
355 West North Temple, 3 Triad, Suite 350, Salt Lake City, UT 84180-1203

Page 8 of 11

## MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

BALCRON OIL DIVISION  
EQUITABLE RESOURCES ENERGY  
1601 LEWIS AVE  
BILLINGS MT 59102-4126

UTAH ACCOUNT NUMBER: N9890REPORT PERIOD (MONTH/YEAR): 12 / 95AMENDED REPORT ☐ (Highlight Changes)

Well Name			Producing Zone	Well Status	Days Oper	Production Volumes		
API Number	Entity	Location				OIL(BBL)	GAS(MCF)	WATER(BBL)
COYOTE FEDERAL 21-5								
4304732260	11500 08S 25E 5		GRRV					
COYOTE FEDERAL 13-5								
4304732261	11500 08S 25E 5		GRRV					
FEDERAL 22-10Y								
4301331395	11501 09S 17E 10		GRRV					
FEDERAL 41-21Y								
4301331392	11505 09S 16E 21		GRRV					
FEDERAL 44-14Y								
4304732438	11506 09S 17E 14		GRRV					
FEDERAL 21-13Y								
4301331400	11510 09S 16E 13		GRRV					
FEDERAL 21-9Y								
4301331396	11513 09S 16E 9		GRRV					
<del>MONUMENT FEDERAL 21-17</del>								
4301331387	11528 09S 17E 17		GRRV					
<del>FEDERAL 21-8</del>								
4301331398	11529 09S 17E 8		GRRV					
FEDERAL 21-25Y								
4301331394	11530 09S 16E 25		GRRV					
<del>MONUMENT FEDERAL 21-8</del>								
4301331382	11574 09S 17E 8		GRRV					
<del>MONUMENT FEDERAL 21-8</del>								
4301331427	11613 09S 17E 8		GRRV					
<del>MONUMENT FEDERAL 21-7</del>								
4301331432	11616 09S 17E 7		GRRV					
TOTALS								

REMARKS: \_\_\_\_\_

I hereby certify that this report is true and complete to the best of my knowledge.

Date: \_\_\_\_\_

Signature: \_\_\_\_\_

Telephone Number: \_\_\_\_\_

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
355 West North Temple, 3 Triad, Suite 350, Salt Lake City, UT 84180-1203

Page 9 of 11

## MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

BALCRON OIL DIVISION  
EQUITABLE RESOURCES ENERGY  
1601 LEWIS AVE  
BILLINGS MT 59102-4126

UTAH ACCOUNT NUMBER: N9890REPORT PERIOD (MONTH/YEAR): 12 / 95AMENDED REPORT ☐ (Highlight Changes)

Well Name			Producing Zone	Well Status	Days Oper	Production Volumes		
API Number	Entity	Location				OIL(BBL)	GAS(MCF)	WATER(BBL)
MONUMENT FEDERAL 11-25								
4304732455	11625	08S 17E 25	GRRV					
<del>MONUMENT FEDERAL 31-17</del>								
4301331428	11635	09S 17E 17	GRRV					
<del>MONUMENT FEDERAL 22-17</del>								
4301331429	11638	09S 17E 17	GRRV					
<del>BALCRON MONUMENT FEDERAL 12-17</del>								
4301331431	11640	09S 17E 17	GRRV					
ALLEN FEDERAL 31-6G								
4301331442	11642	09S 17E 6	GRRV					
BALCRON FEDERAL 41-19Y								
94732504	11651	09S 18E 19	GRRV					
BALCRON MONUMENT STATE 14-2								
4301331425	11656	09S 17E 2	GRRV					
FEDERAL 44-4Y								
4301331452	11679	09S 17E 4	GRRV					
FEDERAL 31-5Y								
4304732503	11680	09S 18E 5	GRRV					
BALCRON MONUMENT FEDERAL 21-25								
4304732528	11683	08S 17E 25	GRRV					
<del>MONUMENT FEDERAL 41-17</del>								
4301331466	11692	09S 17E 17	GRRV					
MONUMENT FEDERAL 12-25								
4304732526	11694	08S 17E 25	GRRV					
<del>MONUMENT FEDERAL 42-17</del>								
4301331467	11698	09S 17E 17	GRRV					
TOTALS								

COMMENTS:

I hereby certify that this report is true and complete to the best of my knowledge.

Date: \_\_\_\_\_

Name and Signature: \_\_\_\_\_

Telephone Number: \_\_\_\_\_

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
355 West North Temple, 3 Triad, Suite 350, Salt Lake City, UT 84180 1203

Page 10 of 11

## MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

BALCRON OIL DIVISION  
EQUITABLE RESOURCES ENERGY  
1601 LEWIS AVE  
BILLINGS MT 59102-4126

UTAH ACCOUNT NUMBER: N9890

REPORT PERIOD (MONTH/YEAR): 12 / 95

AMENDED REPORT ☐ (Highlight Changes)

Well Name			Producing Zone	Well Status	Days Oper	Production Volumes		
PI Number	Entity	Location				OIL(BBL)	GAS(MCF)	WATER(BBL)
<del>MONUMENT FEDERAL 32-17</del>								
4301331465	11704	09S 17E 17	GRRV					
MONUMENT FEDERAL 32-25								
4304732524	11707	08S 17E 25	GRRV					
MONUMENT FEDERAL 31-25								
4304732530	11710	08S 17E 25	GRRV					
BALCRON FEDERAL 12-22Y								
4301331476	11717	08S 17E 22	GRRV					
MONUMENT FEDERAL 33-25								
4304732525	11729	08S 17E 25	GRRV					
MONUMENT FEDERAL 23-25								
44732529	11730	08S 17E 25	GRRV					
BALCRON MONUMENT STATE 24-2								
4304732612	11736	09S 17E 2	GRRV					
BALCRON MONUMENT STATE 13-2								
4301331482	11738	09S 17E 2	GRRV					
BALCRON MONUMENT STATE 22-2								
4304732610	11742	09S 17E 2	GRRV					
BALCRON MONUMENT STATE 12-2								
4301331481	11745	09S 17E 2	GRRV					
BALCRON FEDERAL 31-19Y								
4304732614	11751	09S 18E 19	GRRV					
BALCRON FEDERAL 42-19Y								
4304732616	11756	09S 18E 19	GRRV					
BALCRON FEDERAL 12-20Y								
4304732617	11758	09S 18E 20	GRRV					
TOTALS								

REMARKS:

I hereby certify that this report is true and complete to the best of my knowledge.

Date: \_\_\_\_\_

Signature: \_\_\_\_\_

Telephone Number: \_\_\_\_\_



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

JAN 2 1996

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Equitable Resources Energy Company, Balcron Oil Division

3. Address and Telephone No.

1601 Lewis Avenue; Billings, MT 59102 (406) 259-7860

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

NW NE Section 17, T9S, R17E  
660' FNL, 1980' FEL

5. Lease Designation and Serial No.

UTU-72106

6. If Indian, Allottee or Tribe Name

n/a

7. If Unit or CA, Agreement Designation

n/a

8. Well Name and No.

Balcron Monument Fed. #31-17

9. API Well No.

43-013-31428

10. Field and Pool, or Exploratory Area

Monument Butte/Green River

11. County or Parish, State

Duchesne County, UT

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent  
☒ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other Additions to be the Completion Report
- ☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Attached is a Well Data Information Sheet which has been prepared for this well. This is being submitted to supplement the Well Completion Report which was previously submitted. This Sheet shows additional perforations which were made in this wellbore.

ORIGINAL: Bureau of Land Management (Vernal, UT)  
COPY: Utah Division of Oil, Gas and Mining

14. I hereby certify that the foregoing is true and correct

Signed

*Bobbie Schuman*  
Bobbie Schuman

Title

Regulatory and  
Environmental Specialist

Date

December 29, 1995

(This space for Federal or State office use)

Approved by

Conditions of approval, if any:

Title

Date

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*See Instruction on Reverse Side



**EQUITABLE RESOURCES**  
**ENERGY COMPANY**  
BALCRON OIL DIVISION

WELL NAME: **BALCRON MONUMENT FED #31-17**  
FIELD: Monument Butte (Beluga Unit)  
FEDERAL LEASE NO.: UIU-72106  
LOCATION: NW NE Sec.17, T9S, R17E  
FOOTAGE: 660' FNL, 1980' FEL  
COUNTY/STATE: Duchesne / Utah  
WORKING INTEREST:  
PRODUCING FORMATION: Green River  
COMPLETION DATE: 6/13/94  
INITIAL PRODUCTION: 110 BO, 17 BW  
OIL/GAS PURCHASER:  
PRESENT PROD STATUS:  
ELEVATIONS - GROUND: 5359.8' GL  
TOTAL DEPTH: 5750' KB

DATE : 11/7/95 vk

API NO.: 43-013-31428

NET REVENUE INTEREST:

SPUD DATE: 5/8/94

OIL GRAVITY: 34

BHT:

KB: 5369.8' (10' KB)

PLUG BACK ID: 5697.35' KB

**SURFACE CASING**

STRING: 1  
CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 347.15' (8 jts)  
DEPTH LANDED: 355' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 225 sxs class "G" + 2%  
CaCl + 1/4 #/sk CelloSeal

**PRODUCTION CASING**

STRING: 1  
CSG SIZE: 5-1/2"  
GRADE: K-55  
WEIGHT: 15.5#  
LENGTH: 5732.98' (132 jts)  
DEPTH LANDED: 5741.98' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 165 sxs Class "G" w/ 4% Thrifty  
Lite + 3% salt + 3 #/sk CSE +  
1/4 #/sk celloseal, tailed w/ 275  
sks 50/50 POZ + 2% gel + 10%  
salt + 1/4 #/sk celloseal  
CEMENT TOP AT: 2410' KB

**TUBING RECORD**

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 128 jts (3963.6')  
TUBING ANCHOR: 2.35' (20" tension)  
NO. OF JOINTS: 53 jts (1642.43')  
SEATING NIPPLE: 1.1'  
PERFORATED SUB: 3.2'  
MUD ANCHOR: 1 jt (28.1')  
TOTAL STRING LENGTH: 5640.78'  
SN LANDED AT: 5619.48' KB

**PERFORATION RECORD**

5576' - 5585'	5/23/94	10 holes	(9 ft)
5412' - 5422'	5/23/94	7 holes	(10 ft)
4958' - 4963'	5/26/94	4 SPF	(5 ft)
4948' - 4954'	5/26/94	4 SPF	(6 ft)
4688' - 4692'	5/31/94	6 holes	(4 ft)
4678' - 4680'	5/31/94	4 holes	(2 ft)
4586' - 4592'	5/31/94	6 holes	(6 ft)
4034' - 4036'	6/1/94	4 SPF	(2 ft)
4014' - 4025'	6/1/94	4 SPF	(11 ft)

**SUCKER ROD RECORD**

POLISHED ROD: 1-1/4" x 22'  
SUCKER RODS: 1 - 3/4" x 6' pony  
2 - 3/4" x 8' pony  
222 - 3/4" x 25' plain

TOTAL ROD STRING LENGTH: 5580.5'

PUMP NUMBER: 1006 (Trico)  
PUMP SIZE: 2-1/2" x 1-1/2" x 16' RWAC  
w/ PA plunger  
STROKE LENGTH: 72"  
PUMP SPEED, SPM: 6 SPM  
PUMPING UNIT SIZE: CMI 160-200-74  
PRIME MOVER: AJAX EA-30

**ACID JOB / BREAKDOWN JOB**

5576' - 5585'	5/24/94	500 gal 15% HCl + 126 gal 2% KCl wtr w/ 20 ball sealers. No ball off. ATP-2400#, ATR-4 bpm, ISIP-1600#
5412' - 5422'	5/24/94	500 gal 15% HCl + 126 gal 2% KCl wtr w/ 14 ball sealers. Balled off. ATP-3600#, ATR-4 bpm, ISIP-1200#
4958' - 4963' & 4948' - 4954'	5/26/94	2688 gal 2% KCl w/ 100 ball sealers. Balled out. ATP-3000#, ATR-6 bpm, ISIP-1800#, 5min-1230, 10min-810, 15min-640, 20min-600, 30min-390.
4688' - 4692' & 4678' - 4680'	5/31/94	? gal 2% KCl gel w/ 20 ball sealers Balled off. ATP-3200#, ATR-4 bpm ISIP-?
4586' - 4592'	5/31/94	? gal 2% KCl gel w/ 12 ball sealers. Balled off. ATP-2700#, APR-4 bpm ISIP-1310, 5min-700, 10min-600 15min-430, 20min-380, 30min-290
4034' - 4036' & 4014' - 4025'	6/1/94	? gal 2% KCl gel w/ 100 ball sealers. Balled off. ATP-2200#, ATR-5 bpm, ISIP-1480#, 5min-1020, 10min-980, 15min-820 psi.

LOGS: DLL - MSFL - CNLD



**EQUITABLE RESOURCES**  
**ENERGY COMPANY**  
BALCRON OIL DIVISION

11/6/95 vk

**BALCRON MONUMENT FED #31-17**  
**NW NE Sec.17, T9S, R17E**  
**660' FNL, 1980' FEL**  
**Monument Butte (Beluga Unit)**  
**Duchesne County, Utah**

**WELL DATA CONTINUED**  
**PAGE TWO**

**FRAC JOB**

---

5576' - 5585' 5/24/94 & 5412' - 5422'	29,109 gal 2% KCl gel w/ 30,880 # 20/40 + 21,500# 16/30, Flushed w/ 5409 gal 2% KCl wtr. ATP-2480#, ATR-30.1 bpm, ISIP-1650#, 5min-1520, 10min-1480, 15min-1410, force closure
4958' - 4963' 5/26/94 & 4948' - 4954'	17,366 gal 2% KCl gel w/ 33,300 # 16/30, Flush w/ 4956 gal 2% KCl wtr. ATP-2500#, ATR-29.9 bpm, ISIP-2150#, 5min-1940, 10min-1750, 15min-1650.
4586' - 4592' 6/1/94 & 4678' - 4680' & 4688' - 4692'	16,328 gal 2% KCl gel w/ 25,000# 16/30. Flush w/ 4578 gal 2% KCl wtr. ATP-3500#, ATR-29.9 bpm, ISIP-1900#, 5min-1700, 10min-1630, 15min-1580.
4034' - 4036' 6/1/94 & 4014' - 4025'	27,998 gal 2% KCl gel w/ 50,280# 16/30. ATP-2200#, ATR-31 bpm, ISIP- 1950#, 5min-1800, 10min-1720, 15min-1500, 20min-1430, 30min-1280.

ENTITY ACTION FORM - FORM 6

OPERATOR EQUITABLE RESOURCES ENERGY  
ADDRESS BALCRON OIL DIVISION

OPERATOR ACCT. NO. H9890

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
D		11880				9S	17E		DUCHESNE		
WELL 1 COMMENTS: *BELUGA UNIT EFF 2-1-96 (SEE ATTACHED LIST OF WELLS BEING CHANGED FROM CURRENT ENTITY TO NEW UNIT ENTITY 11880).											
WELL 2 COMMENTS:											
WELL 3 COMMENTS:											
WELL 4 COMMENTS:											
WELL 5 COMMENTS:											

ACTION CODES (See instructions on back of form)

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

(3/89)

L. CORDOVA (DOGM)

Signature

ADMIN. ANALYST

Title

2-22-96

Date

Phone No. ( )



**EQUITABLE RESOURCES  
ENERGY COMPANY****BALCRON OIL DIVISION**1601 Lewis Avenue  
Billings, MT 59102  
(406) 259-7860**★FAX TRANSMITTAL★****FAX NO.: (406) 245-1365**

**TO:** NAME: Leesha  
COMPANY: Utah, Division of Oil, Gas, & Mining  
DATE: 02-21-96  
FAX #:

**FROM:** Molly Conrad  
Equitable Resources Energy Company, Balcron Oil Division  
1601 Lewis Avenue  
Billings, MT 59102  
Phone: (406) 259-7860 ext 236

**TOTAL # OF PAGES 2**  
(including this cover sheet)

If you do not receive all pages, please call back as soon as possible at (406) 259-7860.

**TELECOMMUNICATOR:** mmc

**SPECIAL INSTRUCTIONS:**

Here is a list of the Beluga Unit wells that you requested yesterday. Please let me know when you come up with an Entity Action number for them. The unit was effective 2-1-96, so I will have to change all of my records before reporting February production.

Thanks for your help!!

**NOTE:** The information contained in this facsimile message is privileged and confidential, and is intended only for the use of the individual(s) or entity name above who have been specifically authorized to receive it. If the reader is not the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone and return all pages to the address shown above. **THANK YOU.**

✓ A. Anderson State #1-16	Monument Butte	SW SW	16	9S	17E	Duchesne	UT	Oil (Sl)	Green River	ML-3453	43-013-15582	660' FSL, 560' FWL		Beluga
✓ Balcron Monument Fed. #12-17	Monument Butte	SW NW	17	9S	17E	Duchesne	UT	Oil	Green River	UTU-72106	43-013-31431	1980' FNL, 660' FWL	Vernal	Beluga
✓ Balcron Monument Fed. #13-8	Monument Butte	NW SW	8	9S	17E	Duchesne	UT	Oil	Green River	UTU-74108	43-013-31382	2060' FSL, 694' FWL	Vernal	Beluga
✓ Balcron Monument Fed. #14-8	Monument Butte	SW SW	8	9S	17E	Duchesne	UT	Oil	Green River	UTU-74108	43-013-31388	660' FSL, 660' FWL	Vernal	Beluga
✓ Balcron Monument Fed. #21-17	Monument Butte	NE NW	17	9S	17E	Duchesne	UT	Oil	Green River	U-3563-A	43-013-31387	500' FNL, 1980' FWL	Vernal	Beluga
✓ Balcron Monument Fed. #22-17	Monument Butte	SE NW	17	9S	17E	Duchesne	UT	Oil	Green River	UTU-72106	43-013-31429	1800' FNL, 1980' FWL	Vernal	Beluga
✓ Balcron Monument Fed. #31-17	Monument Butte	NE NW	17	9S	17E	Duchesne	UT	Oil	Green River	UTU-72106	43-013-31428	660' FNL, 1980' FEL	Vernal	Beluga
✓ Balcron Monument Fed. #32-17	Monument Butte	SW NE	17	9S	17E	Duchesne	UT	Oil	Green River	UTU-72106	43-013-31485	1880' FNL, 1980' FEL	Vernal	Beluga
✓ Balcron Monument Fed. #33-8	Monument Butte	NW SE	8	9S	17E	Duchesne	UT	Oil	Green River	UTU-74108	43-013-31427	1980' FSL, 1980' FEL	Vernal	Beluga
✓ Balcron Monument Fed. #41-17	Monument Butte	NE NE	17	9S	17E	Duchesne	UT	Oil	Green River	UTU-72106	43-013-31466	660' FNL, 660' FEL	Vernal	Beluga
✓ Balcron Monument Fed. #42-17	Monument Butte	SE NE	17	9S	17E	Duchesne	UT	Oil	Green River	UTU-72106	43-013-31467	1800' FNL, 700' FEL	Vernal	Beluga
✓ Balcron Monument Fed. #43-7	Monument Butte	NE SE	7	9S	17E	Duchesne	UT	Oil	Green River	UTU-72106	43-013-31432	1850' FSL, 850' FEL	Vernal	Beluga
✓ D. Duncan State #16-5	Monument Butte	SW NW	16	9S	17E	Duchesne	UT	Oil	Green River	State ML-3453-B	43-013-30570	1922' FNL, 865' FWL		Beluga
✓ DMD Federal #17-1	Monument Butte	NE SE	17	9S	17E	Duchesne	UT	Oil (Sl)	Green River	U-44430	43-013-30689	2059' FSL, 0584' FEL	Vernal	Beluga
✓ Federal #1-18	Monument Butte	NW NE	18	9S	17E	Duchesne	UT	OSI	Green River	U-3563	43-013-30332	636' FNL, 2185' FEL	Vernal	Beluga
✓ Macon Federal #23-8	Monument Butte	NE SW	8	9S	17E	Duchesne	UT	Oil	Green River	UTU-74108	43-013-31196	1847' FSL, 1947' FWL	Vernal	Beluga
✓ Macon Federal #44-7	Monument Butte	SE SE	7	9S	17E	Duchesne	UT	Oil	Green River	U-3563-A	43-013-30666	670' FSL, 683' FEL	Vernal	Beluga
✓ Monument Federal #23-17-9-17B	Monument Butte	NE SW	17	9S	17E	Duchesne	UT	PND	Green River	UTU-74108		2217' FSL, 2187' FWL	Vernal	Beluga
✓ Monument Federal #33-17-9-17B	Monument Butte	NW SE	17	9S	17E	Duchesne	UT	PND	Green River	U-72106		1926' FSL, 2000' FEL	Vernal	Beluga
✓ Monument State #13-46-9-17B	Monument Butte	NW SW	16	9S	17E	Duchesne	UT	PND	Green River	State ML-3453-B	43-013-31580	1980' FSL, 660' FWL		Beluga
✓ Monument State #22-46-9-17B	Monument Butte	SE NW	16	9S	17E	Duchesne	UT	PND	Green River	State ML-3453-B	43-013-31579	1824' FNL, 1981' FWL		Beluga
✓ Monument State #23-46-9-17B	Monument Butte	NE SW	16	9S	17E	Duchesne	UT	PND	Green River	State ML-3453-B	43-013-31578	1980' FSL, 1980' FWL		Beluga
✓ Paiute Federal #11-17	Monument Butte	NW NW	17	9S	17E	Duchesne	UT	Oil	Green River	U-3563-A	43-047-30516	861' FNL, 664' FWL	Vernal	Beluga
✓ Paiute Federal #24-8	Monument Butte	SE SW	8	9S	17E	Duchesne	UT	Oil	Green River	UTU-74108	43-013-30675	680' FSL, 1980' FWL	Vernal	Beluga
✓ Paiute Federal #34-8	Monument Butte	SW SE	8	9S	17E	Duchesne	UT	Oil	Green River	UTU-74108	43-013-30778	680' FSL, 1980' FEL	Vernal	Beluga
✓ Paiute Federal #43-8	Monument Butte	NE SE	8	9S	17E	Duchesne	UT	Oil	Green River	UTU-74108	43-013-30777	1958' FSL, 711' FEL	Vernal	Beluga
✓ POMCO #2	Monument Butte	NW SE	18	9S	17E	Duchesne	UT	OTA	Green River	U-3563	43-013-30505	1980' FSL, 1980' FEL	Vernal	Beluga
✓ POMCO #4	Monument Butte	SW SW	17	9S	17E	Duchesne	UT	Oil	Green River	UTU-74108	43-103-30506	660' FSL, 660' FWL	Vernal	Beluga
✓ POMCO #5	Monument Butte	NW SW	17	9S	17E	Duchesne	UT	Oil	Green River	UTU-74108	43-013-30499	1980' FSL, 660' FWL	Vernal	Beluga
✓ Sue Morris #16-3	Monument Butte	NE NW	16	9S	17E	Duchesne	UT	OSI	Green River	State ML-3453-B	43-013-30562	660' FNL, 1980' FWL		Beluga

N4940-Enserch Explor. Inc.  
(Open. chg. in Progress)

N8395-Prod. Recovery Corp.  
(Open. chg. in Progress)

Underground Injection Control (UIC)  
Permit Application  
Supplement Attachment To Form Four

Equitable Resources Energy Company, Western Region  
Beluga Unit Waterflood  
Duchesne County, Utah

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### List of Exhibits

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Exhibit-K	Evidence of Financial Ability
Exhibit-L	Existing EPA Permits Held by Equitable Resources Energy Company

**Underground Injection Control (UIC)  
Permit Application  
Supplement Attachment To Form Four**

Company: Equitable Resources Energy Company (EREC)  
Project: Beluga Unit Waterflood  
Monument Butte Field  
Section 7,8,16,17,& 18, T9S, R17E  
Duchesne County, Utah

**A) AREA OF REVIEW METHODS.**

- 1) The area of review is a fixed radius of 1/4 mile from the proposed Unit boundary and/or proposed injection wells. This area of review was selected to ensure that any future development in this area would be covered.

**B) MAPS OF WELLS/AREA & AREA OF REVIEW.**

- 1) Figure #1 - Topographic Map showing the area of review. A 1/4 mile radius from the proposed injection wells is outlined with all wells in the prescribed area located and identified.

Refer to Exhibit-A for a list of wells within the area of review.

- 2) Figure #2 - Proposed Water Injection Facilities Map.
- 3) Figure #3 - Proposed Produced Water Gathering Facilities Map.
- 4) Figure #4 - Surface and lease ownership map.  
All surface within the area of review is owned by the Bureau of Land Management except for Section 16, T9S, R17E which is owned by the State of Utah.

**C) CORRECTIVE ACTION PLAN AND WELL DATA.**

- 1) A tabulation of well data is presented for each well within the area of review, refer to Exhibit-B, well data sheets & scout cards. Note that the proposed area of review for the Beluga Unit overlaps with the approved area of review for the Jonah Unit (Operated by Equitable Resources Energy Company) and Pleasant Valley Unit (Operated by Enserch Exploration Inc.). Please refer to the approved UIC permits for details on the wells in these areas.

Jonah Unit	Area Permit Number UT2642
Pleasant Valley Unit	Area Permit Number UT2771

- 2) It is proposed to inject water into multiple sands of the Green River Formation using injection packer assemblies which will be landed on tubing. The annulus of the proposed injection wells will be filled with a protective corrosion inhibitor and the backside pressure will be monitored daily. If abnormal backside pressure is detected the well will be pulled to determine the source of the leak.

**D) MAPS AND CROSS SECTIONS OF USDW.**

-Does not apply to Class Two injection wells.

**E) NAME AND DEPTH OF USDW.**

- 1) There are no underground sources of drinking water or water wells in

the area of review. No fresh water sources will be affected by these water injection operations. The top of the saline water bearing horizon in this area is 4800 feet to 5000 feet mean sea level which falls in the Uintah Formation. This information was provided by Gil Hunt with the Division of Oil, Gas, & Mining, State of Utah. The average MSL elevation for the area of review is 5350 feet which basically puts the top of the saline water horizon at surface to approximately 500 feet. There have been no fresh water bearing zones encountered in this area of review.

**F) MAPS AND CROSS SECTIONS OF GEOLOGIC STRUCTURE OF AREA.**

- Does not apply to Class Two injection wells.

**G) GEOLOGICAL DATA ON INJECTION AND CONFINING ZONES.**

- 1) The flooding objectives of the proposed Beluga Unit waterflood are lenticular channel sandstones which are distributed throughout the Douglas Creek Member of the Green River Formation. These sands occur over 1550 feet of vertical section at an average depth range of 3750 feet to 5300 feet. They exhibit a fining upward grain size, typical of fluvial channel deposits, with an average thickness of 15 feet. Due to the multiple potential waterflood horizons in the Douglas Creek Member, Equitable Resources Energy Company is requesting approval to inject water into any or all of the occurring sands within this interval. Refer to Exhibit-C for individual sand isopach maps.

- 2) For specific injection intervals please refer to the perforation intervals of each proposed injection well outlined in Exhibit-D and the welldata sheets and wellbore diagrams provided in Exhibit-B.

- 3) Estimated Formation Tops: See Type Log for the Paiute Federal #43-8

Uintah Formation	Surface to 1450 ft.
Green River Formation	1450 ft to 5400 ft.
Douglas Creek Member	4560 ft to 5400 ft.
Douglas/Wasatch Transition	5400 ft to 5950 ft.
Wasatch Formation	5950 ft.

Note: The Douglas Creek interval is shown as a member within the Green River Formation.

- 4) The confining zones for the proposed injection intervals consists of mixed continental and lacustrine shales. The Douglas Creek Member is primarily interbedded sand stringers and shale which will act as isolation barriers for the waterflood. The top confining zone is the shales of the Green River Formation and the bottom confining zone is the shales of the Wasatch Formation. Refer to the Type Log for the Beluga Unit area which has been submitted with this permit.
- 5) The injection interval water quality is an analysis of the produced water from the Paiute Federal #11-17. This sample represents an average of the produced water from the Beluga Unit wells. The analysis shows 11,800 mg/l chloride, 9,471 mg/l sodium, and 25,085 mg/l TDS. Refer to Figure-5 for the produced water analysis report.
- 6) The average fracture gradient for the Douglas Creek Member sands is 0.876627 psig/ft. This is an average of all the frac gradients calculated from jobs performed on all zones in the Beluga Unit. Refer to Exhibit-E for pressure and gradient data.
- 7) Calculations for the submitted frac gradients are based on the initial shut in pressures obtained from the frac jobs performed on the Beluga Unit wells. Fracture treatment records show that the frac sand was

displaced with 2% KCl water. The hydrostatic gradient for the 2% KCl water was calculated at 0.43836 psig/ft. This gradient was used to calculate the hydrostatic head of the KCl water and was added to the ISIP. The fracture gradient was then calculated by dividing the sum of these pressures by the average of the perforation depth.

$$\text{Frac Gradient} = (\text{ISIP} + 0.43836 \text{ psig/ft}(\text{Depth}))/\text{Depth}$$

- 8) Cement Bond Logs for the proposed water injection wells and a Beluga Unit Type Log have been enclosed. Cement bond logs for the newly drilled wells will be submitted to the EPA as soon as available.
- 9) The proposed water injection wells were drilled with a rotary rig using a conventional water based mud and/or an air mist to an average total depth of 5800 feet. Production casing was run through the productive sands of the Green River Formation and cemented to a point well above the upper most sand. The wells were then perforated, hydraulically fractured, and put on production. Refer to the well data sheets presented in Exhibit-B for specific completion details of each well.

#### H) OPERATING DATA.

- 1) Average water injection volume of 250 STB/WD.  
Maximum water injection volume of 500 STB/WD.
- 2) EREC is requesting a maximum injection pressure of 1856 psig based on fracture pressure gradient calculations until step rate test studies can be performed. The average fracture gradient for the Douglas Creek Member sands is calculated at 0.876627 psig/ft. This is an average of all the frac gradients calculated from jobs performed on all zones in the Beluga Unit. However, due to the difference in depth and fracture gradients between the Y-Zones and R-Zones EREC is requesting a maximum injection pressure of 1856 psig based on the fracture gradient and depth of the Y-Zones. The average fracture gradient for the Y-Zones only is calculated at 0.898974 psig/ft. Using the average depth of the shallowest Y-Zone perforations of 3982 feet, the formation parting pressure is calculated at 1856 psig for the Y-Zones. The average fracture gradient for the remaining zones (Excluding Y-Zones) is calculated at 0.866360 psig/ft. Using the average depth of the shallowest perforations for the remaining zones of 4553 feet, the formation parting pressure is calculated at 1973 psig. Thus, by using the lesser of the two calculated formation parting pressures of 1856 psig for a maximum injection pressure, it is reasonable to assume that the formation will not propagate a fracture during injection operations.
- 3) The annulus of the proposed injection wells will be filled with a protective corrosion inhibitor (Cortron R-2383) supplied by Champion Technologies, Inc. The recommended chemical will be mixed with fresh water at a concentration of two percent by volume. A diesel blanket of approximately one barrel will be placed on the backside to prevent the valves from freezing. Refer to Exhibit-F for the recommendation of packer fluid.
- 4) The injection water for the Beluga Unit waterflood will be fresh potable water supplied by Johnson Water Association out of Myton, Utah. This water will be piped from the Johnson water facility approximately 7.5 miles to the Jonah Unit through a six inch fiberglass water supply line which is owned and operated by EREC. It is proposed to extend this line approximately two miles to the Beluga Unit waterflood facilities. The source for this water supply is the Starvation Reservoir which is owned by the Bureau of Reclamation, Central Utah Project. The water is gathered from the Strawberry and Duchesne Rivers into the reservoir just west of the city of Duchesne, Utah and sold accordingly. The analysis for this

water shows 1200 mg/l chloride and 2548 mg/l TDS with a specific gravity of 1.005. Chemicals will be added to the water to reduce oxygen and to prevent corrosion and scaling. The proposed chemicals will be supplied by Champion Technologies out of Vernal, Utah. Refer to Figure-6 and Figure-7 for the analysis of the Johnson water supply.

- 5) As the waterflood progresses and water breakthrough occurs, it is proposed to inject the produced water back into the reservoir. When it is time to inject this produced water the EPA will be notified via letter and a water analysis will be submitted.

**I) FORMATION TESTING PROGRAM.**

- 1) The porosity of the injection sands averages approximately 12% with a permeability range from 0.1 to 16 millidarcy. The porosity is determined using compensated neutron/density porosity logs and core analysis. The core analysis is from the Allen Federal #34-5, Paiute Federal #24-8, and the Paiute Federal #34-8. The Allen Federal #34-5 well is located outside the Beluga Unit waterflood boundary and the other two are within the unit. These wells represent similar conditions for depositional environment, and reservoir characteristics for the Beluga Unit. Refer to Exhibit-G for the core analysis.
- 2) A mechanical integrity test will be conducted on all proposed water injection wells prior to injection. The casing will be integrity tested by setting a tubing conveyed packer just above the perforations and pressuring the annulus to 1000 psig. The pressure will be held for a one hour test. The results of the mechanical integrity tests will be submitted to the EPA prior to water injection.
- 3) Fracture treating rates, average and maximum pressure, ISIP, and frac gradients have been tabulated for the Beluga Unit and are presented in Exhibit-E and on the well data sheets in Exhibit-B.
- 4) The present reservoir pressure through out the Beluga Unit ranges from a normal pressured reservoir at 2100 psig to depleted conditions at 900 psig. Refer to Figure-8 for a recent pressure build up test performed on the Monument Federal #42-17 in the R2 zone.
- 5) A step rate test will be performed on at least one proposed injection well to determine the formation parting pressure and to more accurately define the maximum allowable injection pressure. It is proposed to perform individual step rate tests on the Y-Zones and R-Zones to better understand the differences in formation parting pressures and to assure that the maximum requested injection pressure does not propagate fractures in any zone during the injection operations.

**J) STIMULATION PROGRAM.**

- Refer to individual well data sheets for well stimulation and fracture data.

**K) INJECTION PROCEDURES.**

- 1) The injection procedure for the Beluga Unit waterflood will be as follows:
  - Water from the Johnson Water Association and/or produced water will be piped to the proposed water injection plant located at the Paiute Federal #24-8 well location.
  - The water will be filtered with 50 and 10 micron filters before entering the water storage tanks at the water injection plant.
  - Chemical will be added for oxygen, corrosion, and scaling.
  - A triplex injection pump will be used to pressurize the water to approximately 2300 psig plant pressure.
  - The pressurized water will travel through an injection manifold and



out to the well feed lines.

- Each feed line will supply one injection well.
  - Each injection well will be equipped with a flowmeter, choke valve check valve, water filter, tubing and casing annulus pressure gauge.
  - The water will be filtered with 5 micron filters before entering the tubing.
  - The water will pass down the tubing, past the packer to the perforations.
  - Tracer profiles will be run approximately every 6 months which will indicate the percentage of water exiting each set of perforations.
- 2) The injection facility will be equipped with pressure monitoring and safety shut-down devices to protect against high or low pressure failures. It will also have tank level, oil, temperature, and other safety shut-down devices.

#### **L) CONSTRUCTION PROCEDURES.**

- 1) It is proposed to drill or re-enter the following wells:

Drill the Monument Federal #23-17B	NE SW Sec.17, T9S, R17E
Re-enter the Monument Butte Fed. #1-8	NW SW Sec.8 , T9S, R17E
Re-enter the State NGC #11-16	NW NW Sec.16, T9S, R17E

- 2) The Monument Federal #23-17B will be drilled and completed similar to the Monument Federal #13-16B, #22-16B, #23-16B, and #33-17B wells. The well will be completed as an oil production well.
- 3) The Monument Butte Federal #1-8 and State NGC #11-16 will be re-entered using a workover rig and power swivel. The wells will be cleaned out to plugback TD and recompleted in additional zones. Refer to the wellbore diagrams presented in Exhibit-B and the proposed injection well diagrams presented in Exhibit-H.

#### **M) CONSTRUCTION DETAILS.**

- 1) Refer to Exhibit-I for the proposed well surface injection equipment.
- 2) Refer to Exhibit-B for wellbore sheets, wellbore diagrams, and scout cards for all wells in the proposed area of review. Refer to Exhibit-H for proposed injection well diagrams. Refer to approved UIC area permits for the Jonah Unit (UT2642) and Pleasant Valley Unit (UT2771) for additional information on wells in the overlapping area of reviews.
- 3) A 25'x 30' water injection plant will be constructed on the location of the Paiute Federal #24-8 proposed water injection well. The water injection plant will be equipped with a produced water gathering and filtering system to reinject produced water as required. High pressure steel water injection lines will be laid and buried from the injection plant to each of the proposed water injection wells.
- 4) The injection wells will be equipped with 2 7/8 inch tubing and an Arrow Set-1 packer set in tension to isolate the injection zones. The packer will be set within 100 feet of the top perforation and will be tested for mechanical integrity. Refer to Exhibit-H for proposed packer setting depths of each water injection well.
- 5) Results of mechanical integrity tests and step rate tests will be submitted to the EPA along with well rework forms for each proposed water injection well prior to injection.

#### **N) CHANGES IN INJECTION FLUID.**

- 1) As the waterflood progresses and water breakthrough occurs, it is proposed to inject the produced water back into the formation. When

it is time to inject this produced water the EPA will be notified via letter and a water analysis will be submitted. At this time it is not feasible to make estimates as to the volume or quality of the produced water.

**O) PLANS FOR WELL FAILURES.**

- 1) All injection wells and related facilities will be monitored daily for integrity. The backside pressure will be checked daily and if abnormal backside pressure is detected the well will be investigated to determine the source of the leak. If a casing leak is found the leak will be isolated and squeezed with cement. The casing will be checked for mechanical integrity to ensure that the squeeze job repaired the leak. If a leak cannot be repaired the well will either be returned to production and pumped off or plugged and abandoned according to the procedure outlined in Section-Q.

**P) MONITORING PROGRAM.**

- 1) The waterflood will be monitored through the existing oil production wells. Each production well will be monitored for waterflood response and records of daily oil and water production will be kept. Fluid levels will be shot when possible to monitor reservoir pressure and flood advancement. Refer to Figure-1 for the location of these oil production wells.

**Q) PLUGGING AND ABANDONMENT PLAN.**

- 1) The P&A plan proposed consists of running into the well with tubing and washing the well out to TD to ensure that the perforations are clear. If the well is not dead, mud will be mixed on location to a sufficient weight for killing the well. The mud will be circulated down the tubing and into the casing until the water has been displaced and/or the well has been killed. The well will then have a balanced cement plug using approximately 260 sacks of class-G cement placed over the Douglas Creek Member of the Green River Formation (i.e. over the perforation interval) from TD to a point at least 300 feet above the uppermost perforation. The top of the first cement plug will be at a depth of approximately 3800 feet. The tubing will be pulled out of the hole and the production casing will be perforated for two feet with four shots per foot at a point 100 feet below the surface casing shoe. Circulation will be established to surface, down the casing & up the annulus via the perforations. Cement will be circulated to fill the production casing and the annulus from the perforations to the surface using 100 sx of class-G cement. The top of the second cement plug will be at the surface and the bottom will be 100 feet below the surface casing shoe. A permanent marker will be set identifying the well name, lease, location, elevation, and plugging date.

- 2) Refer to Exhibit-J for plugging and abandonment plan and diagrams.

**R) NECESSARY RESOURCES.**

- 1) Refer to Exhibit-K for evidence of financial ability to plug and abandon the proposed injection wells.

**S) AQUIFER EXEMPTION.**

-No aquifer exemption is requested.

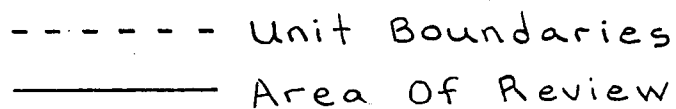
**T) EXISTING EPA PERMITS.**

- 1) Refer to Exhibit-L for existing EPA permits held by Equitable Resources Energy Company, Western Region.

**U) DESCRIPTION OF BUSINESS.**

- 1) Equitable Resources Energy Company is an independent oil and gas production company located in Billings, Montana. EREC employs engineers, geologists, and a field staff with the knowledge and technical experience required to maintain and operate the proposed facilities.

**R17E**



## Beluga Unit

Figure 1

## Duchesne County, Utah

Wall spot man/Area of review

BEFORE THE DIVISION OF OIL, GAS AND MINING  
DEPARTMENT OF NATURAL RESOURCES  
STATE OF UTAH

---ooOoo---

IN THE MATTER OF THE	:	NOTICE OF AGENCY
APPLICATION OF EQUITABLE	:	ACTION
RESOURCES ENERGY COMPANY	:	
FOR ADMINISTRATIVE APPROVAL OF	:	CAUSE NO. UIC-170
THE 44-7, 13-8, 24-8, 33-8, 1-8, 11-16,	:	
22-16, 13-16, 11-17, POMCO #5,	:	
22-17, 31-17, 42-17, AND 33-17	:	
WELLS LOCATED IN SECTIONS 7, 8,	:	
16 AND 17, TOWNSHIP 9 SOUTH,	:	
RANGE 17 EAST, S.L.M., DUCHESNE	:	
COUNTY, UTAH, AS CLASS II	:	
INJECTION WELLS	:	

---ooOoo---

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

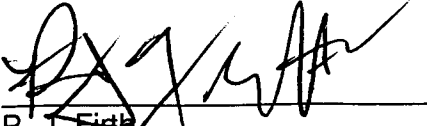
Notice is hereby given that the Division of Oil, Gas and Mining (the "Division") is commencing an informal adjudicative proceeding to consider the application of Equitable Resources Energy Company for administrative approval of the 44-7, 13-8, 24-8, 33-8, 1-8, 11-16, 22-16, 13-16, 11-17, Pomco #5, 22-17, 31-17, 42-17, and 33-17 wells, located in Section 7, 8, 16 and 17, Township 9 South, Range 17 East, SLM, Duchesne County, Utah, for conversion to Class II injection wells. The proceeding will be conducted in accordance with Utah Admin. R.649-10, Administrative Procedures.

The interval from 3190 feet to 5596 feet (Green River Formation) will be selectively perforated for water injection. The maximum requested injection pressure will be limited to 1856 PSIG with a maximum rate of 500 BWPD.

Any person desiring to object to the application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. If such a protest or notice of intervention is received, a hearing will be scheduled before the Board of Oil, Gas and Mining. Protestants and/or intervenors should be prepared to demonstrate at the hearing how this matter affects their interests.

Dated this 2nd day of April 1996.

STATE OF UTAH  
DIVISION OF OIL, GAS & MINING

  
\_\_\_\_\_  
R. J. Firth

Associate Director, Oil & Gas

**Equitable Resources Energy Company  
44-7, 13-8, 24-8, 33-8, 1-8, 11-16, 22-16, 13-16, 11-17, Pomco #5,  
22-17, 31-17, 42-17, and 33-17 Wells  
Cause No. UIC-170**

Publication Notices were sent to the following:

Newspaper Agency Corporation  
Legal Advertising  
Tribune Building, Front Counter  
143 South Main  
Salt Lake City, Utah 84111

Uintah Basin Standard  
268 South 200 East  
Roosevelt, Utah 84066

Bureau of Land Management  
170 South 500 East  
Vernal, Utah 84078

Equitable Resources Energy Company  
1601 Lewis Avenue  
Billings, Montana 59102-4126

U.S. Environmental Protection Agency  
Region VIII  
Attn. Dan Jackson  
999 18th Street  
Denver, Colorado 80202-2466



---

Lorraine Platt  
Secretary  
April 2, 1996



State of Utah  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt  
Governor

Ted Stewart  
Executive Director

James W. Carter  
Division Director

355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
801-538-5340  
801-359-3940 (Fax)  
801-538-5319 (TDD)

April 2, 1996

Uintah Basin Standard  
268 South 200 East  
Roosevelt, Utah 84066

Re: Notice of Agency Action - Cause No. UIC-170

Gentlemen:

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please send proof of publication and billing to the Division of Oil, Gas and Mining, 355 West North Temple, 3 Triad Center, Suite 350, Salt Lake City, Utah 84180-1203.

Sincerely,

*Larraine Platt*

Larraine Platt  
Secretary

Enclosure



State of Utah  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt  
Governor

Ted Stewart  
Executive Director

James W. Carter  
Division Director

355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
801-538-5340  
801-359-3940 (Fax)  
801-538-5319 (TDD)

April 2, 1996

Newspaper Agency Corporation  
Legal Advertising  
Tribune Building, Front Counter  
143 South Main  
Salt Lake City, Utah 84111

Re: Notice of Agency Action - Cause No. UIC-170

Gentlemen:

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please send proof of publication and billing to the Division of Oil, Gas and Mining, 355 West North Temple, 3 Triad Center, Suite 350, Salt Lake City, Utah 84180-1203.

Sincerely,

Larraine Platt  
Secretary

Enclosure







**EQUITABLE RESOURCES**  
**ENERGY COMPANY**

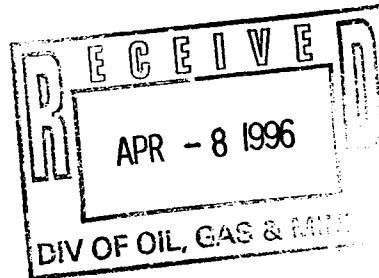
**BALCRON OIL DIVISION**

1601 Lewis Avenue  
Billings, MT 59102

Office: (406) 259-7860  
FAX: (406) 245-1365 ☐  
FAX: (406) 245-1361 ☒

March 22, 1996

Utah Division of Oil, Gas and Mining  
355 West North Temple  
Salt Lake City, UT 84180



Gentlemen:

Effective April 1, 1996, our name will change from Equitable Resources Energy Company, Balcron Oil Division to Equitable Resources Energy Company. Attached is a sundry notice reflecting that change. To simplify paperwork, I have done one sundry notice with copies for each of the wells. To this letter I have attached a list of our wells for your ease in filing the sundry notices in the well files. This should be sufficient for your purposes.

I have the listings on a spreadsheet so if it would be easier for you to have them sorted differently (for example, the Montana Board of Oil and Gas prefers them sorted by API number), please give me a call at (406) 259-7860, extension 240 and I would be glad to provide a list to your specifications.

This change affects only our company name. The physical locations of our offices and the personnel remain the same. We will be changing our well signs and ask for your patience and cooperation as this will be done as soon as possible but may take some time since we do have so many properties at which to make the change.

If you have any questions, please do not hesitate to give me a call.

Sincerely,

*Bobbie Schuman*  
Bobbie Schuman  
Regulatory and  
Environmental Specialist

/hs

Enclosures

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

# SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.  
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

1. Type of Well: OIL ☐ GAS ☐ OTHER: See attached listing

2. Name of Operator:  
Equitable Resources Energy Company, Balcron Oil Division

3. Address and Telephone Number:  
1601 Lewis Avenue Avenue; Billings, MT 59102 (406) 259-7860

4. Location of Well  
Footages: See attached listing

QQ, Sec., T., R., M.:

5. Lease Designation and Serial Number:  
See attached listing

6. If Indian, Allottee or Tribe Name:  
n/a

7. Unit Agreement Name:  
See attached listing

8. Well Name and Number:  
See attached listing

9. API Well Number:  
See attached listing

10. Field and Pool, or Wildcat:  
See attached listing

County: See attached list

State: UTAH

## 11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

### NOTICE OF INTENT (Submit in Duplicate)

- |  |   |
|--|---|
| <input type="checkbox"/> Abandon                   | <input type="checkbox"/> New Construction     |
| <input type="checkbox"/> Repair Casing             | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans           | <input type="checkbox"/> Recomplete           |
| <input type="checkbox"/> Convert to Injection      | <input type="checkbox"/> Reperforate          |
| <input type="checkbox"/> Fracture Treat or Acidize | <input type="checkbox"/> Vent or Flare        |
| <input type="checkbox"/> Multiple Completion       | <input type="checkbox"/> Water Shut-Off       |
| <input type="checkbox"/> Other _____               |   |

Approximate date work will start \_\_\_\_\_

### SUBSEQUENT REPORT (Submit Original Form Only)

- |   |   |
|---|---|
| <input type="checkbox"/> Abandon *                                    | <input type="checkbox"/> New Construction     |
| <input type="checkbox"/> Repair Casing                                | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans                              | <input type="checkbox"/> Reperforate          |
| <input type="checkbox"/> Convert to Injection                         | <input type="checkbox"/> Vent or Flare        |
| <input type="checkbox"/> Fracture Treat or Acidize                    | <input type="checkbox"/> Water Shut-Off       |
| <input checked="" type="checkbox"/> Other <u>Operator name change</u> |   |

Date of work completion \_\_\_\_\_

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.

\* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Effective April 1, 1996, operator will change its name from Equitable Resources Energy Company, Balcron Oil Division TO: Equitable Resources Energy Company. Physical location of the operator remains as: 1601 Lewis Avenue; Billings, MT 59102 (406) 259-7860, FAX: (406) 145-1361. This is to report the operator name change only. It affects the wells on the attached listing.

13.

Name & Signature: Bobbie Schuman

Bobbie Schuman

Regulatory and

Title: Environmental Specialist Date: March 27, 1996

(This space for State use only)

Division of Oil, Gas and Mining  
**OPERATOR CHANGE WORKSHEET**

Routing:

1	LE 7-SJ
2	DE 58-FILE
3	VLD (GIL)
4	RJH
5	LE
6	FILM

Attach all documentation received by the division regarding this change.  
 Initial each listed item when completed. Write N/A if item is not applicable.

- ☐ Change of Operator (well sold)      ☐ Designation of Agent  
☐ Designation of Operator      ☒ ~~Operator Name Change Only~~

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 4-1-96)

TO (new operator)	<u>EQUITABLE RESOURCES ENERGY COEROM</u> (former operator)	<u>EQUITABLE RESOURCES ENERGY CO</u>
(address)	<u>1601 LEWIS AVE</u>	(address) <u>BALCRON OIL DIVISION</u>
	<u>BILLINGS MT 59102-4126</u>	<u>1601 LEWIS AVE</u>
		<u>BILLINGS MT 59102-4126</u>
	phone <u>(406) 259-7860</u>	phone <u>(406) 259-7860</u>
	account no. <u>N9890</u>	account no. <u>N9890</u>

Well(s) (attach additional page if needed):

Name: <b>**SEE ATTACHED**</b>	API: <u>013-31428</u>	Entity: _____	Sec. _____	Twp. _____	Rng. _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec. _____	Twp. _____	Rng. _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec. _____	Twp. _____	Rng. _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec. _____	Twp. _____	Rng. _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec. _____	Twp. _____	Rng. _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec. _____	Twp. _____	Rng. _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec. _____	Twp. _____	Rng. _____	Lease Type: _____

**OPERATOR CHANGE DOCUMENTATION**

- Yes 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). (Rec'd 4-4-96 & 4-8-96)
- N/A 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form).
- N/A 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) \_\_\_\_ If yes, show company file number: \_\_\_\_\_.
- \* 4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of Federal and Indian well operator changes should take place prior to completion of steps 5 through 9 below.
- Yes 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) ~~for each well listed above.~~ (4-10-96)
- Yes 6. Cardex file has been updated for each well listed above. (4-11-96)
- Yes 7. Well file labels have been updated for each well listed above. (4-11-96)
- Yes 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. (4-10-96)
- Yes 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

### ENTITY REVIEW

- Yes 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) no (If entity assignments were changed, attach copies of Form 6, Entity Action Form).
- N/A 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

### BOND VERIFICATION (Fee wells only)

# 5578314 (\$80,000) Seleo Ins. Co. (Bond Rider In Progress)

- Yes 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.
2. A copy of this form has been placed in the new and former operators' bond files.
- N/A 3. The former operator has requested a release of liability from their bond (yes/no)   . Today's date            19  . If yes, division response was made by letter dated            19  .

### LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

- N/A 1. (Rule R615-2-10) The former operator/lessee of any fee lease well listed above has been notified by letter dated            19  , of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.
- 4/26/96
- DTS 2. Copies of documents have been sent to State Lands for changes involving State leases.  
Sent to Ed Bonner - Trust Lands

### FILMING

- WSP 1. All attachments to this form have been microfilmed. Date: May 20 1996.

### FILING

1. Copies of all attachments to this form have been filed in each well file.
2. The original of this form and the original attachments have been filed in the Operator Change file.

### COMMENTS

9/60/10 BLM/BIA "Formal approval not necessary"

**STATE OF UTAH**  
**DIVISION OF OIL, GAS AND MINING**

355 West North Temple, 3 Triad, Suite 350, Salt Lake City, UT 84180-1203

Page 11 of 11

## MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

BALCRON OIL DIVISION  
 EQUITABLE RESOURCES ENERGY  
 1601 LEWIS AVE  
 BILLINGS MT 59102-4126

UTAH ACCOUNT NUMBER: N9890

REPORT PERIOD (MONTH/YEAR): 3 / 96

AMENDED REPORT ☐ (Highlight Changes)

Well Name			Producing Zone	Well Status	Days Oper	Production Volumes		
API Number	Entity	Location				OIL(BBL)	GAS(MCF)	WATER(BBL)
✓ MAXUS FEDERAL 23-8								
4301331196	11880	09S 17E 8	GRRV					
✓ MONUMENT FEDERAL 13-8								
4301331382	11880	09S 17E 8	GRRV					
✓ MONUMENT FEDERAL 21-17								
4301331387	11880	09S 17E 17	GRRV					
✓ FEDERAL 14-8								
4301331398	11880	09S 17E 8	GRRV					
✓ MONUMENT FEDERAL 33-8								
4301331427	11880	09S 17E 8	GRRV					
✓ MONUMENT FEDERAL 31-17								
01331428	11880	09S 17E 17	GRRV					
✓ MONUMENT FEDERAL 22-17								
4301331429	11880	09S 17E 17	GRRV					
✓ BALCRON MONUMENT FEDERAL 12-17								
4301331431	11880	09S 17E 17	GRRV					
✓ MONUMENT FEDERAL 43-7								
4301331432	11880	09S 17E 7	GRRV					
✓ MONUMENT FEDERAL 32-17								
4301331465	11880	09S 17E 17	GRRV					
✓ MONUMENT FEDERAL 41-17								
4301331466	11880	09S 17E 17	GRRV					
✓ BALCRON MONUMENT FEDERAL 42-17								
4301331467	11880	09S 17E 17	GRRV					
<b>TOTALS</b>								

COMMENTS:

hereby certify that this report is true and complete to the best of my knowledge.

Date: \_\_\_\_\_

Name and Signature: \_\_\_\_\_

Telephone Number: \_\_\_\_\_

UTAH

Balcron Monument Fed. #14-12J	Monument Butte	SW SW	12	9S	16E	Duchesne	UT	WIW	Green River	U-035521-A	43-013-31411	660' FSL, 660' FWL	Vernal	Jonah
Balcron Monument Fed. #14-15	Monument Butte	SW SW	15	9S	16E	Duchesne	UT	PND	Green River	U-017985	43-013-31381	772' FSL, 543' FWL	Vernal	
Balcron Monument Fed. #14-26	Monument Butte	SW SW	26	8S	16E	Duchesne	UT	PND	Green River	U-34346	43-013-31512	660' FSL, 660' FWL	Vernal	
Balcron Monument Fed. #14-3-9-17Y	Monument Butte	SW SW	3	9S	17E	Duchesne	UT	Oil	Green River	U-64381	43-013-31535	671' FSL, 792' FWL	Vernal	
Balcron Monument Fed. #14-4	Monument Butte	SW SW	4	9S	16E	Duchesne	UT	PND	Green River	U-73086	43-013-31430	719' FSL, 607' FWL	Vernal	
Balcron Monument Fed. #14-5	Monument Butte	SW SW	5	9S	17E	Duchesne	UT	Oil	Green River	U-020250	43-013-31385	556' FSL, 517' FWL	Vernal	Jonah
Balcron Monument Fed. #14-8	Monument Butte	SW SW	8	9S	17E	Duchesne	UT	Oil	Green River	UTU-74108	43-013-31398	660' FSL, 660' FWL	Vernal	Beluga
Balcron Monument Fed. #21-10-9-17Y	Monument Butte	NE NW	10	9S	17E	Duchesne	UT	Oil	Green River	U-65210	43-013-31537	807' FNL, 2120' FWL	Vernal	
Balcron Monument Fed. #21-14J	Monument Butte	NE NW	14	9S	16E	Duchesne	UT	WIW	Green River	U-096547	43-013-31421	518' FNL, 1850' FWL	Vernal	Jonah
Balcron Monument Fed. #21-17	Monument Butte	NE NW	17	9S	17E	Duchesne	UT	Oil	Green River	U-3563-A	43-013-31387	500' FNL, 1980' FWL	Vernal	Beluga
Balcron Monument Fed. #21-25	Undesignated	NE NW	25	8S	17E	Uintah	UT	Oil	Green River	U-67845	43-047-32528	748' FNL, 1964' FWL	Vernal	
Balcron Monument Fed. #22-12J	Monument Butte	SE NW	12	9S	16E	Duchesne	UT	Oil	Green River	U-096550	43-013-15796	2018' FNL, 2099' FWL	Vernal	Jonah
Balcron Monument Fed. #22-14J	Monument Butte	SE NW	14	9S	16E	Duchesne	UT	PND	Green River	U-096547	43-013-31489	2134' FNL, 2198' FWL	Vernal	Jonah
Balcron Monument Fed. #22-17	Monument Butte	SE NW	17	9S	17E	Duchesne	UT	Oil	Green River	UTU-72106	43-013-31429	1800' FNL, 1980' FWL	Vernal	Beluga
Balcron Monument Fed. #22-20-9-18Y	Monument Butte	SE NW	20	9S	18E	Uintah	UT	Oil	Green River	U-64917	43-047-32711	1980' FNL, 1980' FWL	Vernal	
Balcron Monument Fed. #22-22-8-17Y	Monument Butte	SE NW	22	8S	17E	Duchesne	UT	Oil	Green River	U-67845	43-013-31538	1945' FNL, 2030' FWL	Vernal	
Balcron Monument Fed. #22-5	Monument Butte	SE NW	5	9S	17E	Duchesne	UT	WIW	Green River	U-020252	43-013-31384	1853' FNL, 1980' FWL	Vernal	Jonah
Balcron Monument Fed. #23-11	Monument Butte	NE SW	11	9S	16E	Duchesne	UT	WIW	Green River	U-096550	43-013-31369	1787' FSL, 2147' FWL	Vernal	Jonah
Balcron Monument Fed. #23-15	Monument Butte	NE SW	15	9S	16E	Duchesne	UT	WIW	Green River	U-017985	43-013-31373	1724' FSL, 2078' FWL	Vernal	Jonah
Balcron Monument Fed. #23-24-8-17		NE SW	24	8S	17E	Uintah	UT	PND	Green River				Vernal	
Balcron Monument Fed. #23-25	Undesignated	NE SW	25	8S	17E	Uintah	UT	Oil	Green River	U-67845	43-047-32529	1927' FSL, 2139' FWL	Vernal	
Balcron Monument Fed. #23-5	Monument Butte	NE SW	5	9S	17E	Duchesne	UT	Oil	Green River	U-020252	43-013-31383	1816' FSL, 2057' FWL	Vernal	Jonah
Balcron Monument Fed. #24-12J	Monument Butte	SE SW	12	9S	16E	Duchesne	UT	Oil	Green River	U-035521-A	43-013-31409	539' FSL, 1777' FWL	Vernal	Jonah
Balcron Monument Fed. #24-25	Undesignated	SE SW	25	8S	17E	Uintah	UT	Oil	Green River	U-67845	43-047-32669	653' FSL, 2028' FWL	Vernal	
Balcron Monument Fed. #24-5	Monument Butte	SE SW	5	9S	17E	Duchesne	UT	WIW	Green River	U-020252	43-013-31375	765' FSL, 2243' FWL	Vernal	Jonah
Balcron Monument Fed. #24-6	Monument Butte	SE SW	6	9S	17E	Duchesne	UT	WIW	Green River	U-020252-A	43-013-31363	504' FSL, 1613' FWL	Vernal	Jonah
Balcron Monument Fed. #31-17	Monument Butte	NE NW	17	9S	17E	Duchesne	UT	Oil	Green River	UTU-72106	43-013-31428	660' FNL, 1980' FEL	Vernal	Beluga
Balcron Monument Fed. #31-1J	Monument Butte	NW NE	1	9S	16E	Duchesne	UT	Oil	Green River	U-33992	43-013-31413	660' FNL, 1980' FEL	Vernal	Jonah
Balcron Monument Fed. #31-25	Undesignated	NW NE	25	8S	17E	Uintah	UT	Oil	Green River	U-67845	43-047-32530	660' FNL, 1980' FEL	Vernal	
Balcron Monument Fed. #31-7J	Monument Butte	NW NE	7	9S	17E	Duchesne	UT	WIW	Green River	U-44426	43-013-31405	831' FNL, 1782' FEL	Vernal	Jonah
Balcron Monument Fed. #32-11	Monument Butte	SW NE	11	9S	16E	Duchesne	UT	WIW	Green River	U-096550	43-013-31386	2059' FNL, 1763' FEL	Vernal	Jonah
Balcron Monument Fed. #32-12J	Monument Butte	SW NE	12	9S	16E	Duchesne	UT	WIW	Green River	U-035521	43-013-31419	1805' FNL, 2139' FEL	Vernal	Jonah
Balcron Monument Fed. #32-14J	Monument Butte	SW NE	14	9S	16E	Duchesne	UT	PND	Green River	U-096547	43-013-31490	1980' FNL, 1980' FEL	Vernal	Jonah
Balcron Monument Fed. #32-15	Monument Butte	SW NE	15	9S	16E	Duchesne	UT	WIW	Green River	U-017985	43-013-31368	1868' FNL, 1993' FEL	Vernal	Jonah
Balcron Monument Fed. #32-17	Monument Butte	SW NE	17	9S	17E	Duchesne	UT	Oil	Green River	UTU-72106	43-013-31465	1880' FNL, 1980' FEL	Vernal	Beluga

143 SOUTH MAIN ST.  
P.O. BOX 45838  
SALT LAKE CITY, UTAH 84145  
FED. TAX I.D. # 87-0217663

Newspaper Agency Corporation  
The Salt Lake Tribune DESERET NEWS

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CUSTOMER NAME AND ADDRESS	ACCOUNT NUMBER	
DIV OF OIL, GAS & MINING 355 WEST NORTH TEMPLE 3 TRIAD CENTER #350 SLC, UT 84180	D5385340L-07	04/11/96

ACCOUNT NAME	
DIV OF OIL, GAS & MINING	
TELEPHONE	INVOICE NUMBER
801-538-5340	TL488200561
SCHEDULE	
START 04/11/96 END 04/11/96	
CUST. REF. NO.	
UIC-170	
CAPTION	

NOTICE OF AGENCY ACTION CAUSE N

SIZE

47 LINES 2.00 COLUMN

RATE

1.64

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AD CHARGES

154.16

TOTAL COST

154.16

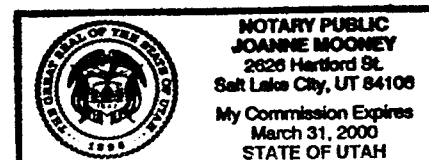
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CORPORATION LEGAL BOOKKEEPER, I CERTIFY THAT THE ATTACHED  
NOTICE OF AGENCY ACTION CAUSE N FOR  
OIL & MINING WAS PUBLISHED BY THE NEWSPAPER AGENCY  
OR THE SALT LAKE TRIBUNE AND DESERET NEWS, DAILY NEWSPAPERS  
IN ENGLISH LANGUAGE WITH GENERAL CIRCULATION IN UTAH, AND PUBLISHED  
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PUBLISHED ON START 04/11/96 END 04/11/96

SIGNATURE

DATE 04/11/96



THIS IS NOT A STATEMENT BUT A "PROOF OF PUBLICATION"  
PLEASE PAY FROM BILLING STATEMENT.

COPY

NOTICE OF AGENCY ACTION  
CAUSE NO. UIC-170  
BEFORE THE DIVISION OF OIL, GAS AND MINING  
DEPARTMENT OF NATURAL RESOURCES, STATE OF UTAH

IN THE MATTER OF THE APPLICATION OF EQUITABLE RESOURCES  
ENERGY COMPANY FOR ADMINISTRATIVE APPROVAL OF THE 44-7,  
13-8, 24-8, 33-8, 1-8, 11-16, 22-16, 13-16, 11-17, POMCO #5, 22-17,  
31-17, 42-17, AND 33-17 WELLS LOCATED IN SECTIONS 7, 8, 16  
AND 17, TOWNSHIP 9 SOUTH, RANGE 17 EAST, S.L.M., DUCHESNE  
COUNTY, UTAH, AS CLASS II INJECTION WELLS.

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE  
ENTITLED MATTER.

Notice is hereby given that the Division of Oil, Gas and  
Mining (the "Division") is commencing an informal adjudicative  
proceeding to consider the application of Equitable Resources  
Energy Company for administrative approval of the 44-7, 13-8,  
24-8, 33-8, 1-8, 11-16, 22-16, 13-16, 11-17, POMCO #5, 22-17, 31-  
17, 42-17, and 33-17 wells located in Sections 7, 8, 16 and 17,  
Township 9 South, Range 17 East, S.L.M., Duchesne County, Utah,  
for conversion to Class II injection wells. The proceeding will be  
conducted in accordance with Utah Admin. R. 649-10, Adminis-  
trative Procedures.

The interval from 3190 feet to 5596 feet (Green River Forma-  
tion) will be selectively perforated for water injection. The maxi-  
mum requested injection pressure will be limited to 1856 PSIG  
with a maximum rate of 500 BWPD.

Any person desiring to object to the application or other-  
wise intervene in the proceeding, must file a written protest or  
notice of intervention with the Division within fifteen days fol-  
lowing publication of this notice. If such a protest or notice of inter-  
vention is received, a hearing will be scheduled before the  
Board of Oil, Gas and Mining. Protestants and/or intervenors  
should be prepared to demonstrate at the hearing how this  
matter affects their interests.

DATED this 2nd day of April, 1996.

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
R. J. Firth  
Associate Director, Oil and Gas  
48820050



State of Utah  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt  
Governor

Ted Stewart  
Executive Director

James W. Carter  
Division Director

355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
801-538-5340  
801-359-3940 (Fax)  
801-538-5319 (TDD)

May 21, 1996

Equitable Resources Energy Company  
1601 Lewis Avenue  
Billings, MT 59102

Re: Application for Injection Wells  
Sections 7, 8, 16 and 17  
Township 9 South, Range 17 East  
Duchesne County, Utah

Gentlemen:

Pursuant to Utah Admin. Code R649-5-3-3, the Division of Oil, Gas and Mining (the "Division") issues its administrative approval for conversion of the following listed wells to Class II injection wells:

Monument State 22-16-9-17B  
Monument State 13-16-9-17B  
Monument State 33-17-9-17B  
Balcron Monument Federal 42-17  
Balcron Monument Federal 31-17  
Balcron Monument Federal 22-17  
Pomco 5  
Paiute Federal 11-7  
State NGC 11-16  
Monument Butte Federal 1-8  
Balcron Monument Federal 33-8  
Paiute Federal 24-8  
Balcron Monument Federal 13-8  
Mocon Federal 44-7

Accordingly, the following stipulations shall apply for full compliance with this approval:

1. Compliance with all applicable requirements for the operation, maintenance and reporting for Underground Injection Control ("UIC") Class II injection wells pursuant to Utah Admin. Code R649-1 et seq.





Equitable Resources Energy Company  
May 21, 1996  
Page 2

2. Conformance with all conditions and requirements of the complete application submitted by Equitable Resources Energy Company.
3. Cement bond logs shall be run on the Monument Butte Federal 1-8, State NGC 11-16 and Pomco # 5 wells prior to conversion. Copies of the bond logs shall be submitted to the Division for review to determine if remedial cement work is necessary.

If you have any questions regarding this approval or the necessary requirements, please contact Dan Jarvis at this office.

Sincerely,



R.J. Firth  
Associate Director

cc: Chuck Williams, Environmental Protection Agency  
Bureau of Land Management, vernal

DIVISION OF OIL, GAS AND MINING  
UNDERGROUND INJECTION CONTROL PROGRAM

PERMIT  
DECISION DOCUMENT

**Applicant:** Equitable Resources      **Location:** Belugu Unit

**Wells:** 44-7,13-8,24-8,33-8,1-8,11-16,22-16,13-16,11-17,Pomco#5,22-17,31-17,42-17 and 33-17

**Ownership Issues:** The proposed wells are located in sections 7, 8 and 16, township 9 south, range 17 east, Duchesne County, Utah. Surface ownership within the 1/2 mile area is held by the BLM and the State of Utah. All of the wells are located on Federal land. Mineral interests are held by private individuals, the State of Utah, and the federal government. Equitable has submitted an affidavit stating that a copy of UIC form 1 was sent as notice to all surface owners and operators within a 1/2 mile radius of each of the proposed injection wells.

**Well Integrity:** The 14 wells proposed for conversion to injection all have surface casing set at approximately 300 feet  $\pm$  30 feet, and were all cemented to surface. Production casing was set at a depth of approximately 5600 feet - 6000 feet, and were all cemented above the injection zone. The 1-8 and 11-16 wells are plugged and abandoned wells. The Pomco # 5 well is an old shut in producer, there are no cement bond logs on these three wells. Equitable has been notified that they must run bond logs on these wells and submit them to the Division prior to conversion. Cement bond logs are on file with the Division and verify reported cement tops on the other proposed injectors. The interval from 3190-5596 feet (Green River Formation) will be selectively perforated for water injection. A 2 7/8 inch tubing with a packer will be set above the perforations for injection of water. There are 25 producing wells 5 plugged and abandoned wells, 5 shut in producers and 3 newly drilled wells in the 1/2 mile area of review. All wells in the AOR have sufficient cement behind the production string and have adequate surface casing to prevent migration of fluid up the hole. All of the plugged wells have adequate plugs. At the time of conversion the casing will be pressure tested. Casing/tubing annulus pressure will be monitored on a daily basis and reported on a monthly basis thereafter. Additional casing pressure tests shall be run every five years or whenever the tubing and packer assemblies are pulled for workover purposes.

**Ground Water Protection:** The base of moderately saline water in the area of the project is at a depth of approximately 300-500 feet. Each of the injection wells and offset producing wells have adequate surface casing and sufficient cement on the production casing to protect fresh water. The submitted fracture pressure for the field averages .87 psi/ft resulting in a maximum allowed surface pressure of 1975 psi. A maximum pressure of 1856 psig was requested and injection pressures for each of the injectors will be

maintained at this pressure. The confining intervals above and below the injection zone consists of tight shales, siltstones and limestones of the Green River Formation. Water analysis indicate that the TDS of injection zone is greater than 10,000 TDS.

**Oil/Gas & Other Mineral Resources Protection:** Equitable Resources is the operator of the Belgu Unit. A unit agreement was previously formed, correlative rights issues were addressed before the Board of Oil, Gas and Mining when the matter was heard.

**Bonding:** Equitable is the operator of all wells within the project and is bonded by the Federal Government.

**Actions Taken and Further Approvals Needed:** These applications are for wells in an existing waterflood unit, previously supplied data and information along with newly submitted data supports a decision to approve the wells for conversion to injection. A public notice has been published in both the Salt Lake Tribune and the Uinta Basin Standard. The applications for the injection wells are technically complete. Cement bond logs need to be run on the 1-8, 11-16 and pomco #5 wells. A casing pressure test needs to be conducted when the well is converted and a casing/tubing pressure test run prior to injection. The casing tubing annulus needs to be pressured to 1000 psi and not 500 psi as stated in the permit. Following the 15 day comment period if no objections are received it is recommended to issue an approval to convert the wells and an injection permit. There are no special conditions or stipulations other than running the bond logs on the specified wells and the permit should be granted in accordance with the conditions set forth in the application.

DJJ  
Reviewers

05-21-96  
Date

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Equitable Resources Energy Company

3. Address and Telephone No.

1601 Lewis Avenue, Billings, MT 59102 (406)259-7860

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

NW NE Section 17, T9S, R17E  
660' FNL, 1980' FEL

5. Lease Designation and Serial No.

UTU-72106

6. If Indian, Allottee or Tribe Name

n/a

7. If Unit or CA, Agreement Designation

Beluga Unit

8. Well Name and No.

Balcron Monument Fed. #31-17B

9. API Well No.

43-013-31428

10. Field and Pool, or Exploratory Area

Monument Butte/Green River

11. County or Parish, State

Duchesne County, Utah

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☐ Notice of Intent

☒ Subsequent Report

☐ Final Abandonment Notice

TYPE OF ACTION

☐ Abandonment

☒ Recompletion

☐ Plugging Back

☐ Casing Repair

☐ Altering Casing

☐ Other

☐ Change of Plans

☐ New Construction

☐ Non-Routine Fracturing

☐ Water Shut-Off

☐ Conversion to Injection

☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

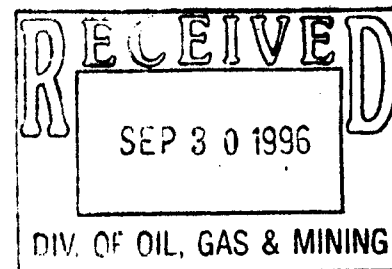
Additional perforations were added to the Green River Formation as follows:

4058' - 4061' 4 SPF  
4066' - 4068'

The perforations were broken down as follows:

4058' - 4068' with 30 bbls 2% KCL water.

The well was put back on production on 2-28-96 at 6:30 p.m.



14. I hereby certify that the foregoing is true and correct

Signed

*Molly Conrad*

Title Operations Secretary

Date 9-24-96

(This space for Federal or State office use)

Approved by

Conditions of approval, if any:

Title

Date

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statement or representations as to any matter within its jurisdiction.

\*See instruction on Reverse Side

WO tax credit denied. 9/97

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well  
☐ Oil Well ☐ Gas Well ☒ Other WIW

2. Name of Operator  
Equitable Resources Energy Company

3. Address and Telephone No.  
1601 Lewis Avenue; Billings, MT 59102 (406) 259-7860

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
NW NE 17-T9S-R17E  
690'FNL, 1980'FEL

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

5. Lease Designation and Serial No.

UTU-72106

6. If Indian, Allottee or Tribe Name

n/a

7. If Unit or CA, Agreement Designation

Beluga Unit

8. Well Name and No.

Balc Mon. Fed. # 31-17

9. API Well No.

43-013-31428

10. Field and Pool, or Exploratory Area  
Monument Butte/Green River

11. County or Parish, State

Duchesne Co. Utah

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent  
☒ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

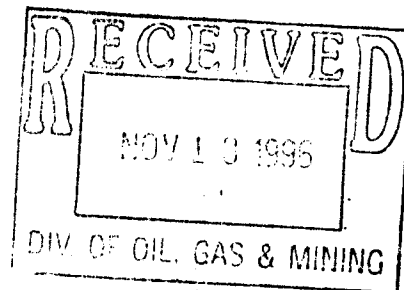
- ☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other request for approval to inject
- ☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

This well has been converted to a water injection well in accordance with the attached wellbore diagram and EPA Well Rework form. Water injection will commence when final approval has been received from the EPA, BLM, and Utah DOGM. This sundry notice is to request that approval to inject.

ORIGINAL: Bureau of Land Management (Vernal, UT) (Attention: Wayne Bankert)  
COPY: Utah Division of Oil, Gas and Mining (Attention: Dan Jarvis)  
COPY: U.S. EPA (Attention: Chuck Williams)



14. I hereby certify that the foregoing is true and correct

Signed

Bobbie Schuman

Title

Regulatory and  
Environmental Specialist

Date

November 12, 1996

(This space for Federal or State office use)

Title

Date

Approved by

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*See Instruction on Reverse Side

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

## WELL REWORK RECORD

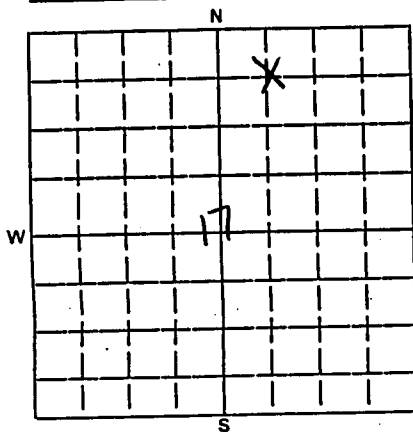
## NAME AND ADDRESS OF PERMITTEE

Equitable Resources Energy Company  
Western Region  
1601 Lewis Avenue  
Billings, MT 59102

## NAME AND ADDRESS OF CONTRACTOR

Cannon Well Service  
P.O. Box 1335  
Vernal, UT 84078

LOCATE WELL AND OUTLINE UNIT ON  
SECTION PLAT — 640 ACRES



STATE

UT

COUNTY

Duchesne

PERMIT NUMBER

UT-72106

## SURFACE LOCATION DESCRIPTION

NW 1/4 OF NE 1/4 OF 1/4 SECTION 17 TOWNSHIP 9S RANGE 17E

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface Location 690 ft. from (N/S) N Line of quarter section  
and 1980 ft. from (E/W) E Line of quarter section

UT 2798-  
043015

## WELL ACTIVITY

- ☐ Brine Disposal  
☒ Enhanced Recovery  
☐ Hydrocarbon Storage

Lease Name

Beluga Unit

Total Depth Before Rework

5750' KB

Total Depth After Rework

5750' KB

Date Rework Commenced

10/17/96

Date Rework Completed

10/19/96

## TYPE OF PERMIT

- ☐ Individual  
☒ Area  
Number of Wells —

Well Number

Balcron Monument  
Federal #31-17

## WELL CASING RECORD — BEFORE REWORK

Casing		Cement		Perforations		Acid or Fracture Treatment Record
Size	Depth	Sacks	Type	From	To	
See Attached						

## WELL CASING RECORD — AFTER REWORK (Indicate Additions and Changes Only)

Casing		Cement		Perforations		Acid or Fracture Treatment Record
Size	Depth	Sacks	Type	From	To	
See Attached						

DESCRIBE REWORK OPERATIONS IN DETAIL  
USE ADDITIONAL SHEETS IF NECESSARY

## WIRE LINE LOGS, LIST EACH TYPE

Isolated individual zones established in  
Rate into each zone. Pickup new int. lbs.  
+ set ARROW set-1 packer @ 3925' KB. Log  
Casing annulus w/ 55 gal Champion Cortron  
2383 PKR fluid mixer w/ 61 BBS 2% KCL  
Water.

Log Types

DL, MSFL,  
CNLD

Logged Intervals

TD to Surface

## CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32).

NAME AND OFFICIAL TITLE (Please type or print)

John Zellitti  
Senior Production Engineer

SIGNATURE

DATE SIGNED

11-11-96



# EQUITABLE RESOURCES ENERGY COMPANY

WELL NAME: BALCRON MONUMENT FED #31-17  
FIELD: Monument Butte (Beluga Unit)  
FEDERAL LEASE NO.: UIU-72106  
LOCATION: NW NE Sec.17, T9S, R17E  
FOOTAGE: 660' FNL, 1980' FEL  
COUNTY/STATE: Duchesne / Utah  
WORKING INTEREST: 0.91491727  
PRODUCING FORMATION: Green River  
COMPLETION DATE: 6/13/94  
INITIAL PRODUCTION: 110 BO, 17 BW  
OIL/GAS PURCHASER: Amoco  
PRESENT PROD STATUS: Producing  
ELEVATIONS - GROUND: 5359.8' GL  
TOTAL DEPTH: 5750' KB

DATE: 10/28/96 DZ

API NO.: 43-013-31428

NET REVENUE INTEREST: 0.79883964

SPUD DATE: 5/8/94

OIL GRAVITY: 34

BHT:

KB: 5369.8' KB (10' KB)

PLUG BACK TD: 5697.35' KB

## SURFACE CASING

STRING: 1  
CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 347.15' (8 jts)  
DEPTH LANDED: 355' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 225 sxs class "G" + 2%  
CaCl + 1/4 #/sk CelloSeal

## TUBING RECORD

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 127 Jts (3913.81')  
SEATING NIPPLE: 2-7/8" X 1.1'  
ARROW SET 1 PACKER: 2-3/8"x5-1/2"x6.20'  
PACKER LANDED AT: 3925' KB  
PKR Set W/ 9" (10,000#) Tension

LOGS: DLL - MSFL - CNLD

## PRODUCTION CASING

STRING: 1  
CSG SIZE: 5-1/2"  
GRADE: K-55  
WEIGHT: 15.5#  
LENGTH: 5732.98' (132 jts)  
DEPTH LANDED: 5741.98' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 165 sxs Class "G" w/ 4% Thrfty  
Lite + 3% salt + 3 #/sk CSE +  
1/4 #/sk celloseal, tailed w/ 275  
sks 50/50 POZ + 2% gel + 10%  
salt + 1/4 #/sk celloseal  
CEMENT TOP AT: 2410' KB

## PERFORATION RECORD

5576' - 5585'	5/23/94	10 holes	(9 ft)	B3
5412' - 5422'	5/23/94	7 holes	(10 ft)	B1
4958' - 4963'	5/26/94	4 SPF	(5 ft)	G3
4948' - 4954'	5/26/94	4 SPF	(6 ft)	G3
4688' - 4692'	5/31/94	6 holes	(4 ft)	R5
4678' - 4680'	5/31/94	4 holes	(2 ft)	R5
4586' - 4592'	5/31/94	6 holes	(6 ft)	R2
4034' - 4036'	6/1/94	4 SPF	(2 ft)	Y2
4014' - 4025'	6/1/94	4 SPF	(11 ft)	Y2
4058' - 4061'	2/28/96	4 SPF	(3 ft)	Y3
4066' - 4068'	2/28/96	4 SPF	(2 ft)	Y3

## ACID JOB / BREAKDOWN JOB

5576' - 5585'	5/24/94	500 gal 15% HCl + 126 gal 2% KCl wtr w/ 20 ball sealers. No ball off. ATP-2400#, ATR-4 bpm, ISIP-1600#
5412' - 5422'	5/24/94	500 gal 15% HCl + 126 gal 2% KCl wtr w/ 14 ball sealers. Balled off. ATP-3600#, ATR-4 bpm, ISIP-1200#
4958' - 4963' & 4948' - 4954'	5/26/94	2688 gal 2% KCl w/ 100 ball sealers. Balled out. ATP-3000#, ATR-6 bpm, ISIP-1800#, 5min-1230, 10min-810, 15min-640, 20min-600, 30min-390.
4688' - 4692' & 4678' - 4680'	5/31/94	1428 gal 2% KCl gel w/ 20 ball seale Balled off. ATP-3200#, ATR-4 bpm ISIP-1310.
4586' - 4592'	5/31/94	1260 gal 2% KCl gel w/ 12 ball sealer Balled off. ATP-2700#, APR-4 bpm ISIP-1310, 5min-700, 10min-600 15min-430, 20min-380, 30min-290
4034' - 4036' & 4014' - 4025'	6/1/94	1050 gal 2% KCl gel w/ 100 ball seal Balled off. ATP-2200#, ATR-5 bpm, ISIP-1480#, 5min-1020, 10min-980, 15min-820 psi.
4058' - 4061' & 4066' - 4068'	2/28/96	Used rig pump: 1260 gal 2% KCl wtr. Break @ 700 psi. Tbg went on vacuum.

Before  
Rework



# EQUITABLE RESOURCES ENERGY COMPANY

11/6/95 vk

BALCRON MONUMENT FED #31-17  
NW NE Sec.17, T9S, R17E  
660' FNL, 1980' FEL  
Monument Butte (Beluga Unit)  
Duchesne County, Utah

WELL DATA CONTINUED  
PAGE TWO

## FRAC JOB

5576' - 5585' 5/24/94 & 5412' - 5422'	29,109 gal 2% KCl gel w/ 30,880 # 20/40 + 21,500# 16/30, Flushed w/ 5409 gal 2% KCl wtr. ATP-2480#, ATR-30.1 bpm, ISIP-1650#, 5min-1520, 10min-1480, 15min-1410, force closure
4958' - 4963' 5/26/94 & 4948' - 4954'	17,366 gal 2% KCl gel w/ 33,300 # 16/30, Flush w/ 4956 gal 2% KCl wtr. ATP-2500#, ATR-29.9 bpm, ISIP-2150#, 5min-1940, 10min-1750, 15min-1650.
4586' - 4592' 6/1/94 & 4678' - 4680' & 4688' - 4692'	16,328 gal 2% KCl gel w/ 25,000# 16/30. Flush w/ 4578 gal 2% KCl wtr. ATP-3500#, ATR-29.9 bpm, ISIP-1900#, 5min-1700, 10min-1630, 15min-1580.
4034' - 4036' 6/1/94 & 4014' - 4025'	27,998 gal 2% KCl gel w/ 50,280# 16/30. ATP-2200#, ATR-31 bpm, ISIP- 1950#, 5min-1800, 10min-1720, 15min-1500, 20min-1430, 30min-1280.

Before Rework





BALCRON MONUMENT FED #31-17  
NW NE Sec.17, T9S, R17E  
660' FNL, 1980' FEL  
Lease #UIU-72106  
Monument Butte (Beluga Unit)  
Duchesne County, Utah

Elev.GR - 5359.8' GL  
Elev.KB - 5369.8' KB (10'KB)

# WELLBORE DIAGRAM

DATE: 11/7/95 vk

## SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 347.15' (8 jts)  
DEPTH LANDED: 355' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 225 sxs class "G" + 2%  
CaCl + 1/4 #/sk CelloSeal

355' KB

## PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: K-55  
WEIGHT: 15.5#  
LENGTH: 5732.98' (132 jts)  
DEPTH LANDED: 5741.98' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 165 sxs Class "G" w/ 4% Thrifty  
Lite + 3% salt + 3 #/sk CSE +  
1/4 #/sk celloseal, tailed w/ 275  
sks 50/50 POZ + 2% gel + 10%  
salt + 1/4 #/sk celloseal  
CEMENT TOP AT: 2410' KB

## TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 128 jts (3963.6')  
TUBING ANCHOR: 2.35' (20" tension)  
NO. OF JOINTS: 52 jts (1611.23')  
SEATING NIPPLE: 2-7/8"x1.10'  
PERFORATED SUB: 2-7/8"x4.20'  
MUD ANCHOR: 2-7/8"x28.10'  
STRING LENGTH: 5620.98'  
SN LANDED AT: 5587.15' KB

## SUCKER RODS

WELL LAST PULLED: 2/28/96  
Recompletion

POLISHED ROD: 1-1/4" x 22'  
SUCKER RODS: 1 - 3/4" x 2' pony  
2 - 3/4" x 8' pony  
221 - 3/4" x 25' D-61 plain

TAL ROD STRING LENGTH: 5557'

PUMP NUMBER: 1117 (Trico)  
PUMP SIZE: 2-1/2" x 1-1/2" x 16" RWAC  
w/ PA plunger

STROKE LENGTH: 72"  
PUMP SPEED, SPM: 6 SPM  
PUMPING UNIT SIZE: CMI 160-200-74

PRIME MOVER: AJAX EA-30, 7-1/4"x8"  
SN: 66240

TANK SIZES & NUMBERS: 2-400 BBL, 12'x20'  
Tank #1: SN: 2857  
Tank #2: SN: 9D881-07

LOGS: DLL - MSFL - CNLD

## ACID JOB /BREAKDOWN

5576' - 5585'	5/24/94	500 gal 15% HCl + 126 gal 2% KCl wtr w/ 20 ball sealers. No ball off. ATP-2400#, ATR-4 bpm, ISIP-1600#
5412' - 5422'	5/24/94	500 gal 15% HCl + 126 gal 2% KCl wtr w/ 14 ball sealers. Balled off. ATP-3600#, ATR-4 bpm, ISIP-1200#
4958' - 4963' & 4948' - 4954'	5/26/94	2688 gal 2% KCl w/ 100 ball sealers. Balled out. ATP-3000#, ATR-6 bpm, ISIP-1800#, 5min-1230, 10min-810, 15min-640, 20min-600, 30min-390.
4688' - 4692' & 4678' - 4680'	5/31/94	1428 gal 2% KCl gel w/ 20 ball sealers Balled off. ATP-3200#, ATR-4 bpm ISIP-1310.
4586' - 4592'	5/31/94	1260 gal 2% KCl gel w/ 12 ball sealers. Balled off. ATP-2700#, APR-4 bpm ISIP-1310, 5min-700, 10min-600 15min-430, 20min-380, 30min-290
4034' - 4036' & 4014' - 4025'	6/1/94	1050 gal 2% KCl gel w/ 100 ball sealers. Balled off. ATP-2200#, ATR-5 bpm, ISIP-1480#, 5min-1020, 10min-980, 15min-820 psi.
4058'4061' & 4066'-4068'	2/28/96	Used rig pump: 1260 gal 2% KCL wtr. Break @ 700 psi. Tbg went on vacuum.

## FRAC JOB

5576' - 5585' & 5412' - 5422'	5/24/94	29,109 gal 2% KCl gel w/ 30,880 # 20/40 + 21,500# 16/30, Flushed w/ 5409 gal 2% KCl wtr. ATP-2480#, ATR-30.1 bpm, ISIP-1650#, 5min-1520, 10min-1480, 15min-1410, force closure
4958' - 4963' & 4948' - 4954'	5/26/94	17,366 gal 2% KCl gel w/ 33,300 # 16/30, Flush w/ 4956 gal 2% KCl wtr. ATP-2500#, ATR-29.9 bpm, ISIP-2150#, 5min-1940, 10min-1750, 15min-1650.
4586' - 4592' & 4678' - 4680' & 4688' - 4692'	6/1/94	16,328 gal 2% KCl gel w/ 25,000# 16/30. Flush w/ 4578 gal 2% KCl wtr. ATP-3500#, ATR-29.9 bpm, ISIP-1900#, 5min-1700, 10min-1830, 15min-1580.
4034' - 4036' & 4014' - 4025'	6/1/94	27,998 gal 2% KCl gel w/ 50,280# 16/30, ATP-2200#, ATR-31 bpm, ISIP- 1950#, 5min-1800, 10min-1720, 15min-1500, 20min-1430, 30min-1280.

## PERFORATION RECORD

5576' - 5585'	5/23/94	10 holes	(9 ft)	B3
5412' - 5422'	5/23/94	7 holes	(10 ft)	B1
4958' - 4963'	5/26/94	4 SPF	(5 ft)	G3
4948' - 4954'	5/26/94	4 SPF	(6 ft)	G3
4688' - 4692'	5/31/94	6 holes	(4 ft)	R5
4678' - 4680'	5/31/94	4 holes	(2 ft)	R5
4586' - 4592'	5/31/94	6 holes	(6 ft)	R2
4034' - 4036'	6/1/94	4 SPF	(2 ft)	Y2
4014' - 4025'	6/1/94	4 SPF	(11 ft)	Y2
4058'-4061'	2/28/96	4 SPF	(3 ft)	Y3
4066'-4068'	2/28/96	4 SPF	(2 ft)	Y3

5412' - 5422'

5576' - 5585'

SN LANDED @ 5619' KB  
EOT LANDED @ 5651' KB

PBTD @ 5697' KB  
TD @ 5750' KB

Before Rework



# EQUITABLE RESOURCES ENERGY COMPANY

BALCRON MONUMENT FED #3  
NW NE Sec.17, T9S, R17E  
660' FNL, 1980' FEL  
Lease #UIU-72106  
Monument Butte (Beluga Unit)  
Duchesne County, Utah

Elev.GR - 5359.8' GL  
Elev.KB - 5369.8' (10'KB)

## INJECTION WELLBORE DIAGRAM

DATE :

### SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 347.15' (8 jts)  
DEPTH LANDED: 355' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 225 sxs class "G" + 2%  
CaCl + 1/4 #/sk CelloSeal

### PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: K-55  
WEIGHT: 15.5#  
LENGTH: 5732.98' (132 jts)  
DEPTH LANDED: 5741.98' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 165 sxs Class "G" w/ 4% Thrfty  
Lite + 3% salt + 3 #/sk CSE +  
1/4 #/sk celloseal, tailed w/ 275  
sks 50/50 POZ + 2% gel + 10%  
salt + 1/4 #/sk celloseal  
CEMENT TOP AT: 2410' KB

### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 127 Jts (3913.81')  
SEATING NIPPLE: 2-7/8" X 1.1'  
ARROW SET 1 PACKER: 2-3/8"x5-1/2"x6.20'  
PACKER LANDED AT: 3925' KB  
PKR Set W/ 9" (10,000#) Tension

CONVERSION: 1.) Tag fill @ 5683' KB  
2.) TIH w/ RBP & PKRand pump filtered  
KCL water to establish injection rate  
into each zone.  
3.) Replace 2-3/8" tbg with new 2-7/8" tbg  
from Marta-Co.  
4.) Pump PKR fluid and Set Arrow Set-1 PKR  
@ 3925'. Press. test csg to 1000 psi. Good.

PACKER FLUID: Champion Cortron 2383 PKR fluid  
mixed w/ 61 bbls 2% KCL water. 10/18/96

MIT RECORD:

355' KB

TOC @ 2410'KB

ARROW SET 1 PACKER  
SET AT 3925'

	PERFORATION RECORD	
4014' - 4025'	5576' - 5585'	5/23/94
4034' - 4036'	5412' - 5422'	5/23/94
PROPOSED	4958' - 4963'	5/26/94
4057' - 4068'	4948' - 4954'	5/26/94
	4688' - 4692'	5/31/94
	4678' - 4680'	5/31/94
4586' - 4592'	4586' - 4592'	5/31/94
	4034' - 4036'	6/1/94
4678' - 4680'	4014' - 4025'	6/1/94
4688' - 4692'	4057' - 4068'	PROPOSED

4948' - 4954'  
4958' - 4963'

5412' - 5422'

5576' - 5585'

PBTD @ 5697' KB  
TD @ 5750' KB

Post  
Rework

**EREC Western Region**  
**DAILY OPERATING REPORT**

**MONUMENT FEDERAL #31-17**

**Operator: EREC/Western Region**  
**EREC WI: 90.68%**  
**Location: NE NW Section 17, T9S, R17E**  
**Duchesne County, Utah**  
**Prospect: Monument Butte/Beluga Unit**

10/17/96 Re-Completion for Injection  
MIRU Cannon Well Service Rig #2. Hang well off. Unseat DHP, Flush rods w/30 bbls  
2% KCL wtr. Pull & LD rod string. 221 - 3/4" D-61 Plain, Condition B. Unflange well  
head, NU BOP, unseat tbg anchor. Tag fill @ 5683' KB. Tally out of hole w/tbg string  
(180 jts). TIH w/TS RBP, retrieving tool, 2-3/8" x 2-7/8" sub, HD pkr, SN & 180 jts 2-  
7/8" tbg. Set BP @ 5594' KB, pkr @ 5524' KB. SWIFN.  
DC: \$2,591 CC: \$2,591



State of Utah  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt  
Governor

Ted Stewart  
Executive Director

James W. Carter  
Division Director

355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
801-538-5340  
801-359-3940 (Fax)  
801-538-5319 (TDD)

November 20, 1996

Equitable Resources Energy Company  
1601 Lewis Avenue  
Billings, Montana 59102

Re: Administrative Approval for Conversion of Wells to Class II Injection Wells, Duchesne County, Utah

Gentlemen:

Pursuant to Utah Admin. Code R649-5-3-3, the Division of Oil, Gas and Mining (the "Division") issues its administrative approval for conversion of the referenced wells to Class II injection wells:

Monument State 22-16-9-17B ✓  
Monument State 33-17-9-17B ✓  
Balcron Monument Federal 31-17 ✓  
Pomco 5 ✓  
State NGC 11-16 ✓  
Balcron Monument Federal 33-8 ✓  
Balcron Monument Federal 13-8 ✓

Monument State 13-16-9-17B ✓  
Balcron Monument Federal 42-17 ✓  
Balcron Monument Federal 22-17 ✓  
Paiute Federal 11-7 ✓  
Monument Butte Federal 1-8 ✓  
Paiute Federal 24-8 ✓  
Mocon Federal 44-7 ✓

Accordingly, the following stipulations shall apply for full compliance with this approval:

1. Compliance with all applicable requirements for the operation, maintenance and reporting for Underground Injection Control ("UIC") Class II injection wells pursuant to Utah Admin. Code R649-1 et seq.
2. Conformance with all conditions and requirements of the complete application submitted by Equitable Resources Energy Company.



Page 2

Equitable Resources Energy Company

November 20, 1996

Enclosed with this letter is the Underground Injection Control Permit for this well. If you have any questions regarding this approval or the necessary requirements, please contact Dan Jarvis at this office.

Sincerely,

A handwritten signature in black ink, appearing to read 'R. J. Firth', is written over a printed name.

R. J. Firth  
Associate Director

lwp

cc: Dan Jackson, Environmental Protection Agency  
Bureau of Land Management, Vernal



# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt  
Governor

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355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
801-538-5340  
801-359-3940 (Fax)  
801-538-5319 (TDD)

## UNDERGROUND INJECTION CONTROL PERMIT

Cause No. UIC-170

Operator: Equitable Resources Energy Company

Wells: Monument State 22-16-9-17B  
Monument State 13-16-9-17B  
Monument State 33-17-9-17B  
Balcron Monument Federal 42-17  
Balcron Monument Federal 31-17  
Balcron Monument Federal 22-17  
Pomco 5  
Paiute Federal 11-7  
State NGC 11-16  
Monument Butte Federal 1-8  
Balcron Monument Federal 33-8  
Paiute Federal 24-8  
Balcron Monument Federal 13-8  
Mocon Federal 44-7

Location: Sections 7,8,16 and 17, Township 9 South, Range 17  
East,  
County: Duchesne

Well Type: Enhanced Recovery (waterflood)

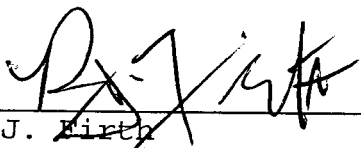
### Stipulations of Permit Approval

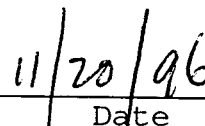
1. Approval for conversion to Injection Well issued on  
May 21, 1996



2. Maximum Allowable Injection Pressure: 1856 psig
3. Maximum Allowable Injection Rate: (restricted by pressure limitation)
4. Injection Interval: 3190 feet to 5596 feet (Green River Formation)

Approved by:

  
\_\_\_\_\_  
R.J. Firth  
Associate Director, Oil and Gas

  
\_\_\_\_\_  
Date

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Equitable Resources Energy Company

3. Address and Telephone No.

1601 Lewis Avenue; Billings, MT 59102 (406) 259-7860

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

See attached list

5. Lease Designation and Serial No.  
See attached list

6. If Indian, Allottee or Tribe Name

n/a

7. If Unit or CA, Agreement Designation

Beluga Unit

8. Well Name and No.

See attached list

9. API Well No.

See attached list

10. Field and Pool, or Exploratory Area  
Mon. Butte/Grn. River

11. County or Parish, State

Duchesne County, UTAH

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent  
☒ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☐ Other

- ☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☒ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

The Salcedon Monument Federal #31-17 has been converted to water injection for secondary recovery of remaining oil reserves. The well was treated with 5 gallons of claymaster and 10 gallons of 940 surfactant mixed with 75 barrels of 25 KCl water at a temperature of approximately 160°F to clear the wellbore and formation of residual oil. The well was then placed on injection at a rate of approximately 590 STBWP.D.

Water injection commenced on December 3, 1996.

ORIGINAL: Bureau of Land Management (Vernal, UT)  
COPY: Utah Division of Oil, Gas and Mining  
COPY: U.S. Environmental Protection Agency (UIC Section)

14. I hereby certify that the foregoing is true and correct

Signed

Bobbie Schuman

(This space for Federal or State office use)

Title

Regulatory and  
Environmental Specialist

Date January 13, 1997

Approved by

Conditions of approval, if any:

Title

Date

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*See Instruction on Reverse Side



Federal  
Status Formation Lease #

Field											APT #	Footages	UNIT
Balcron Monument Fed. #13-8	Monument Butte	NW SW	8	9S	17E	Duchesne	UT	Oil	Green River	UTU-74108	43-013-31382	2060' FSL, 694' FWL	Beluga
Balcron Monument Fed. #22-17	Monument Butte	SE NW	17	9S	17E	Duchesne	UT	Oil	Green River	UTU-72106	43-013-31429	1800' FNL, 1980' FWL	Beluga
Balcron Monument Fed. #31-17	Monument Butte	NE NW	17	9S	17E	Duchesne	UT	Oil	Green River	UTU-72106	43-013-31428	660' FNL, 1980' FEL	Beluga
Balcron Monument Fed. #33-8	Monument Butte	NW SE	8	9S	17E	Duchesne	UT	Oil	Green River	UTU-74108	43-013-31427	1980' FSL, 1980' FEL	Beluga
Balcron Monument Fed. #42-17	Monument Butte	SE NE	17	9S	17E	Duchesne	UT	Oil	Green River	UTU-72106	43-013-31467	1800' FNL, 700' FEL	Beluga
Balcron Monument Fed. #43-7	Monument Butte	NE SE	7	9S	17E	Duchesne	UT	Oil	Green River	UTU-72106	43-013-31432	1850' FSL, 850' FEL	Beluga
Monument Federal #23-17-9-17B	Monument Butte	NE SW	17	9S	17E	Duchesne	UT	OIL	Green River	UTU-74108		2217' FSL, 2187 FWL	Beluga
Mocon Federal #44-7	Monument Butte	SE SE	7	9S	17E	Duchesne	UT	Oil	Green River	U-3563-A	43-013-30666	670' FSL, 663' FEL	Beluga
Monument Federal #33-17-9-17B	Monument Butte	NW SE	17	9S	17E	Duchesne	UT	COMPL	Green River	U-72106		1926' FSL, 2000' FEL	Beluga
Monument Federal #44-8-17B	Monument Butte	SE SE	8	9S	17E	Duchesne	UT	PND	Green River	U-74398	43-013-30643	602' FSL, 598' FEL	Beluga
Monument State #11-16-9-17B (Re-entry)	Monument Butte	NW NW	16	9S	17E	Duchesne	UT	DRLG	Green River	State ML-21844	43-013-30616	660' FNL, 659' FWL	Beluga
Monument State #13-16-9-17B	Monument Butte	NW SW	16	9S	17E	Duchesne	UT	SI	Green River	State ML-3453-B	43-013-31580	1980' FSL, 660' FWL	Beluga
Monument State #22-16-9-17B	Monument Butte	SE NW	16	9S	17E	Duchesne	UT	SI	Green River	State ML-3453-B	43-013-31579	1824' FNL, 1981' FWL	Beluga
Paiute Federal #11-17	Monument Butte	NW NW	17	9S	17E	Duchesne	UT	Oil	Green River	U-3563-A	43-047-30516	661' FNL, 664' FWL	Beluga
Paiute Federal #24-8	Monument Butte	SE SW	8	9S	17E	Duchesne	UT	Oil	Green River	UTU-74108	43-013-30675	660' FSL, 1980' FWL	Beluga
POMCO #5	Monument Butte	NW SW	17	9S	17E	Duchesne	UT	Oil	Green River	UTU-74108	43-013-30499	1980' FSL, 660' FWL	Beluga

1-10-97/no

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

# SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.  
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

1. Type of Well: OIL ☒ GAS ☐ OTHER:

2. Name of Operator:

Inland Production Company

3. Address and Telephone Number:

475 - 17th Street, Suite 1500, Denver, CO 80202

4. Location of Well

Footages: See Attached Exhibit

QQ, Sec., T., R., M.:

5. Lease Designation and Serial Number:

See Attached

6. If Indian, Allottee or Tribe Name:

n/a

7. Unit Agreement Name:

See Attached

8. Well Name and Number:

See Attached

9. API Well Number:

See Attached

10. Field and Pool, or Wildcat:

See Attached

County:

State:

## 11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

### NOTICE OF INTENT (Submit in Duplicate)

- |   |   |
|---|---|
| <input type="checkbox"/> Abandon                                    | <input type="checkbox"/> New Construction     |
| <input type="checkbox"/> Repair Casing                              | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans                            | <input type="checkbox"/> Recomplete           |
| <input type="checkbox"/> Convert to Injection                       | <input type="checkbox"/> Reperforate          |
| <input type="checkbox"/> Fracture Treat or Acidize                  | <input type="checkbox"/> Vent or Flare        |
| <input type="checkbox"/> Multiple Completion                        | <input type="checkbox"/> Water Shut-Off       |
| <input checked="" type="checkbox"/> Other <u>Change of Operator</u> |   |

Approximate date work will start \_\_\_\_\_

### SUBSEQUENT REPORT (Submit Original Form Only)

- |   |   |
|---|---|
| <input type="checkbox"/> Abandon                                    | <input type="checkbox"/> New Construction     |
| <input type="checkbox"/> Repair Casing                              | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans                            | <input type="checkbox"/> Reperforate          |
| <input type="checkbox"/> Convert to Injection                       | <input type="checkbox"/> Vent or Flare        |
| <input type="checkbox"/> Fracture Treat or Acidize                  | <input type="checkbox"/> Water Shut-Off       |
| <input checked="" type="checkbox"/> Other <u>Change of Operator</u> |   |

Date of work completion 9-30-97

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.

\* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Effective September 30, 1997, Inland Production Company will take over operations of the wells on the attached list. The previous operator was :

Equitable Resources Energy Company  
1601 Lewis Avenue  
Billings, MT 59102

Effective September 30, 1997, Inland Production Company is responsible under the terms and conditions of the leases for operations conducted on the leased lands or a portion thereof under State of Utah Statewide Bond No. 4471291.

OCT 1 1997

13.

Name & Signature:

*Chris A. Potter*

CHRIS A. POTTER, ATTORNEY-IN-FACT

Date:

9/30/97

This space for State use only)

## INLAND

Inland Resources Change of Operator							
WELL NAME	LOCATION	COUNTY	ST	FIELD NAME	API NUMBER	LEASE NO.	AGEEMENT
✓ BALCRON FEDERAL #22-20Y	SE NW 209S 18E	UINTAH	UT	MONUMENT BUTTE (8)	43-047-32711-00	UTU64917	
✓ BALCRON FEDERAL #41-19Y	NENE 199S 18E	UINTAH	UT	MONUMENT BUTTE (8)	43-047-32504-00	UTU65635	
✓ MONUMENT FEDERAL #43-19Y	NE SE 199S 18E	UINTAH	UT	MONUMENT BUTTE (8)	43-047-32730-00	UTU65635	
✓ MONUMENT FEDERAL #14-21Y	SW SW 219S 18E	UINTAH	UT	MONUMENT BUTTE (8)	43-047-32726-00	UTU68105	
✓ <del>W</del> ANDERSON STATE #1-16	SW SW 169S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-15582-00		UTU75023X
✓ <del>D</del> DUNCAN STATE #16-5	SWNW 169S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-30570-00		UTU75023X
✓ <del>D</del> MD FEDERAL #17-1	NE SE 179S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-30689-00		UTU75023X
✓ <del>F</del> EDERAL #1-18	NWNE 189S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-30332-00		UTU75023X
✓ MAXUS FEDERAL #23-8	NESW 8 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-31196-00		UTU75023X
✓ MONUMENT BUTTE FED. #12-17	SWNW 179S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-31431-00		UTU75023X
✓ MONUMENT BUTTE FED. #14-8	SWSW 8 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-31398-00		UTU75023X
✓ MONUMENT BUTTE FED. #21-17	NENW 179S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-31387-00		UTU75023X
✓ MONUMENT BUTTE FED. #32-17	SWNE 179S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-31465-00		UTU75023X
✓ MONUMENT BUTTE FED. #41-17	NENE 179S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-31466-00		UTU75023X
✓ MONUMENT BUTTE FED. #43-7	NESE 7 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-31432-00		UTU75023X
✓ MONUMENT FEDERAL #23-17B	NE SW 179S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-31582-00	UTU74108	UTU75023X
✓ MONUMENT STATE #23-16B	NE SW 169S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-31578-00		UTU75023X
✓ PAIUTE FEDERAL #34-8	SWSE 8 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-30778-00		UTU75023X
✓ PAIUTE FEDERAL #43-8	NESE 8 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-30777-00		UTU75023X
✓ POMCO #2	NWSE 189S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-30505-00		UTU75023X
✓ POMCO #4	NWSW 179S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-30506-00		UTU75023X
✓ SUE MORRIS #16-3	NENW 169S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-30562-00		UTU75023X
✓ MOCON FEDERAL #44-7	SE SE 7 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-30666-00		UTU75023X
✓ MONUMENT FEDERAL #13-8	NW SW 8 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-31382-00		UTU75023X
✓ MONUMENT FEDERAL #33-8	NW SE 8 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-31427-00		UTU75023X
✓ MONUMENT FEDERAL #22-17	SE NW 179S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-31429-00		UTU75023X
✓ MONUMENT STATE #13-16B	NW SW 169S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-31580-00		UTU75023X
✓ MONUMENT STATE #11-16B	NW NW 169S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-30616-00	ML21844 Beluga	UTU75023X
✓ MONUMENT STATE #22-16B	SE NW 169S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-31579-00	31145	UTU75023X
✓ MONUMENT FEDERAL #31-17	NW NE 179S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-31428-00		UTU75023X
✓ MONUMENT FEDERAL #33-17B	NW SE 179S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-31581-00		UTU75023X
✓ MONUMENT FEDERAL #42-17	SE NE 179S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-31467-00	UTU74108	UTU75023X
✓ MONUMENT FEDERAL #44-8-9-17B	SE SE 8 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-30643-00	UTU74398	UTU75023X
✓ PAIUTE FEDERAL #24-8	SE SW 8 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-30675-00	UTU74108	UTU75023X
✓ PAIUTE FEDERAL #11-17	NW NW 179S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-30516-00		UTU75023X
✓ POMCO #5	SW SW 179S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-30499-00		UTU75023X
✓ BALCRON FEDERAL #12-10Y	SW NW 109S 17E	DUCHESNE	UT	MONUMENT BUTTE (CD)	43-013-31536-00	UTU65210	
✓ BALCRON FEDERAL #21-10Y	NE NW 109S 17E	DUCHESNE	UT	MONUMENT BUTTE (CD)	43-013-31537-00	UTU65210	
✓ BALCRON FEDERAL #22-10Y	SE NW 109S 17E	DUCHESNE	UT	MONUMENT BUTTE (CD)	43-013-31395-00	UTU65210	

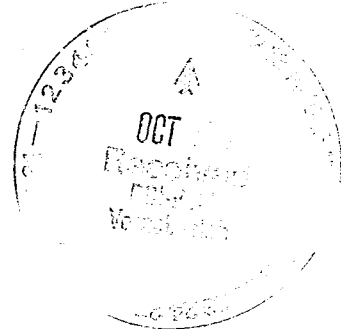


RECEIVED

OCT 10 1997

October 7, 1997

Bureau of Land Management  
Vernal District Office  
170 South 500 East  
Vernal, UT 84078



RE: Change of Operator  
Duchesne & Vernal Counties, Utah

Dear Mr. Forsman:

Please find attached Sundry Notices and Reports on Wells for Change of Operator, previously operated by Equitable Resources Energy Company for approval.

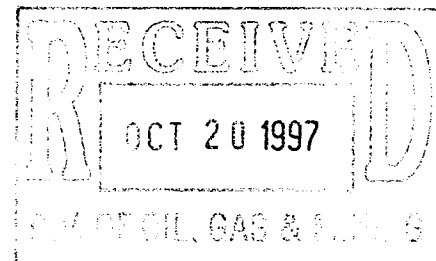
If you should have questions regarding this matter, please do not hesitate to contact me at the number listed below.

Sincerely,

INLAND PRODUCTION COMPANY

*Patsy Barreau*  
Patsy Barreau

/pb  
encls.

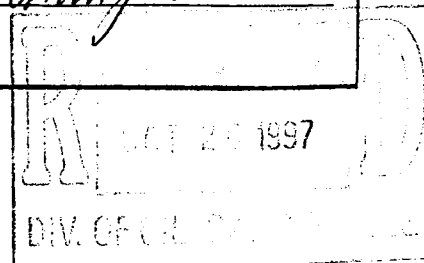


RECEIVED  
OCT 10 1997

RECEIVED  
OCT 13 1997

TRANSFER OF AUTHORITY TO INJECT - UIC FORM 5

Well name and number: <u>See Attached</u> <b>BELUGA (GREEN RIVER) UNIT</b>	
Field or Unit name: <u>See Attached</u> API no. <u>See Attached</u>	
Well location: QQ <u>See Attached</u> section <u>See Attached</u> township <u>See Attached</u> range <u>See Attached</u> county <u>See Attached</u>	
Effective Date of Transfer: <u>September 30, 1997</u>	
<b>CURRENT OPERATOR</b>	
Transfer approved by:	
Name <u>David M. McCoskery</u>	Company <u>Equitable Resources Energy Co.</u>
Signature <u>[Signature]</u>	Address <u>1601 Lewis Avenue</u>
Title <u>Director of Operations &amp; Engineering</u>	<u>Billings, MT 59102</u>
Date <u>9-30-97</u>	Phone <u>( 406 ) 259-7860</u>
Comments:	
<b>NEW OPERATOR</b>	
Transfer approved by:	
Name <u>Chris A. Potter</u>	Company <u>Inland Production Company</u>
Signature <u>[Signature]</u>	Address <u>475 - 17th Street, Suite 1500</u>
Title <u>CHRIS A. POTTER, ATTORNEY-IN-FACT</u>	<u>Denver, CO 80202</u>
Date <u>9-30-97</u>	Phone <u>( 303 ) 292-0900</u>
Comments:	
(State use only)	
Transfer approved by <u>[Signature]</u>	Title <u>Manager</u>
Approval Date <u>3-19-98</u>	



Injection wells

✓ MONUMENT BUTTE STATE #14-2	SW SW 2 9S 17E	DUCHESNE	UT	UNDESIGNATED (CD)	43-013-31425-00	UTU45555	
✓ MONUMENT BUTTE STATE #22-2	SE NW 2 9S 17E	UINTAH	UT	UNDESIGNATED (CD)	43-047-32610-00	UTU45555	
✓ MOCON FEDERAL #44-7	SE SE 7 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-30666-00		UTU75023X
✓ MONUMENT FEDERAL #13-8	NW SW 8 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-31382-00		UTU75023X
✓ MONUMENT FEDERAL #33-8	NW SE 8 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-31427-00		UTU75023X
✓ MONUMENT FEDERAL #22-17	SE NW 17 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-31429-00		UTU75023X
✓ MONUMENT STATE #13-16B	NW SW 16 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-31580-00		UTU75023X
✓ MONUMENT STATE #11-16B	NW NW 16 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-30616-00	ML21844	UTU75023X
✓ MONUMENT STATE #22-16B	SE NW 16 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-31579-00	31145 mL3453B	UTU75023X
✓ MONUMENT FEDERAL #31-17	NW NE 17 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-31428-00		UTU75023X
✓ MONUMENT FEDERAL #33-17B	NW SE 17 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-31581-00		UTU75023X
✓ MONUMENT FEDERAL #42-17	SE NE 17 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-31467-00	UTU74108	UTU75023X
✓ MONUMENT FEDERAL #44-8-9-17B	SE SE 8 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-30643-00	UTU74398	UTU75023X
✓ PAIUTE FEDERAL #24-8	SE SW 8 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-30675-00	UTU74108	UTU75023X
✓ PAIUTE FEDERAL #11-17	NW NW 17 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-30516-00		UTU75023X
✓ POMCO #5	SW SW 17 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-30499-00		UTU75023X
✓ PARIETTE BENCH #4 (SWD)	SWSE 7 9S 19E	UINTA	UT	PARIETTE BENCH	43-047-15681-00	UTU017992	8910069630

STATE OF UTAH  
INVENTORY OF INJECTION WELLS

OPERATOR	API NO.	WELL	TNS	RGE	SE	WELLTYPE	INDIAN COUNT
*****	*****	*****	***	***	**	*****	*****
EQUITABLE RE	43-013-31410	12-12J	09S	16E	12	INJW	N
EQUITABLE RE	43-013-31408	41-14J	09S	16E	14	INJW	N
EQUITABLE RE	43-013-31421	21-14J	09S	16E	14	INJW	N
EQUITABLE RE	43-013-31373	23-15J	09S	16E	15	INJW	N
EQUITABLE RE	43-013-31368	32-15J	09S	16E	15	INJW	N
EQUITABLE RE	43-013-31367	41-15J	09S	16E	15	INJW	N
EQUITABLE RE	43-013-31370	FEDERAL 13-5	09S	17E	5	INJW	Y
EQUITABLE RE	43-013-31375	24-5	09S	17E	5	INJW	Y
EQUITABLE RE	43-013-31384	22-5	09S	17E	5	INJW	Y
EQUITABLE RE	43-013-31195	ALLEN FEDERA	09S	17E	6	INJW	N
EQUITABLE RE	43-013-31492	11-7J	09S	17E	7	INJW	Y
EQUITABLE RE	43-013-31405	31-7J	09S	17E	7	INJW	Y
EQUITABLE RE	43-047-20252	E. RED WASH	08S	25E	5	INJW	N
EQUITABLE RE	43-047-20261	ERW 4-6	08S	25E	6	INJW	Y
EQUITABLE RE	43-047-32346	42-6X	08S	25E	6	INJW	N
EQUITABLE RE	43-047-20245	AMERADA GUIN	08S	25E	7	INJW	Y
EQUITABLE RE	43-013-30666	44-7	09S	17E	7	INJW	Y 11880
EQUITABLE RE	43-013-31382	13-8	09S	17E	8	INJW	Y 11880
EQUITABLE RE	43-013-31427	33-8	09S	17E	8	INJW	Y 11880
EQUITABLE RE	43-013-30675	24-8	09S	17E	8	INJW	Y 11880
EQUITABLE RE	43-013-30643	44-8-17B	09S	17E	8	INJW	Y 1523
EQUITABLE RE	43-013-31580	13-16-9-17B	09S	17E	16	INJW	Y 11880
EQUITABLE RE	43-013-30616	11-16-9-17B	09S	17E	16	INJW	Y 6130
EQUITABLE RE	43-013-31145	22-16-9-17B	09S	17E	16	INJW	Y 11880
EQUITABLE RE	43-013-30510	11-17	09S	17E	17	INJW	Y
EQUITABLE RE	43-013-30499	POMCO 5	09S	17E	17	INJW	Y 11880
EQUITABLE RE	43-013-30516	11-17	09S	17E	17	INJW	Y 11880
EQUITABLE RE	43-013-31428	31-17	09S	17E	17	INJW	Y 11880
EQUITABLE RE	43-013-31581	33-17-9-17B	09S	17E	17	INJW	Y 11880
EQUITABLE RE	43-013-31429	22-17	09S	17E	17	INJW	Y 11880
EQUITABLE RE	43-013-31467	42-17	09S	17E	17	INJW	Y 11880
EQUITABLE RE	43-047-32610	22-2	09S	17E	2	INJW	Y
EQUITABLE RE	43-013-31425	14-2	09S	17E	2	INJW	Y
GIANT EXPLOR	43-037-15042	GOTHIC MESA	41S	23E	16	INJD	Y
GIANT EXPLOR	43-037-20292	SENTINEL PEA	41S	26E	27	INJD	Y
GIANT EXPLOR	43-037-16452	9-24	41S	23E	9	INJI	Y
HAY HOT OIL	43-037-30521	MCCRACKEN PT	40S	23E	19	INJI	N
INLAND PRODU	43-013-30843	MONUMENT BUT	08S	16E	34	INJW	Y
INLAND PRODU	43-013-31559	15-25	08S	16E	25	INJW	N
INLAND PRODU	43-013-30693	FEDERAL 3-33	08S	16E	33	INJW	N
INLAND PRODU	43-013-30808	FED 1-34	08S	16E	34	INJW	N
INLAND PRODU	43-013-30686	FEDERAL 5-35	08S	16E	35	INJW	N
INLAND PRODU	43-013-30606	MONUMENT BUT	08S	16E	35	INJW	N
INLAND PRODU	43-013-30745	MONUMENT BUT	08S	16E	35	INJW	N
INLAND PRODU	43-013-31514	1A-35	08S	16E	35	INJW	Y
INLAND PRODU	43-013-30605	MONUMENT BUT	08S	16E	35	INJW	N
INLAND PRODU	43-013-31264	MONUMENT FED	08S	16E	35	INJW	N
INLAND PRODU	43-013-30608	MONUMENT BUT	08S	16E	35	INJW	N
INLAND PRODU	43-013-30624	STATE 5-36	08S	16E	36	INJW	N
INLAND PRODU	43-013-30592	STATE 1-36	08S	16E	36	INJW	N
INLAND PRODU	43-013-30787	12-32	08S	17E	32	INJW	Y
INLAND PRODU	43-013-30779	FED 15-28	08S	16E	28	INJW	N
INLAND PRODU	43-013-31372	14A-28	08S	16E	28	INJW	N



# EQUITABLE RESOURCES ENERGY COMPANY

## WESTERN REGION

(406) 259-7860 Telephone

(406) 245-1361 Fax

December 10, 1997

Lisha

State of Utah

Division of Oil, Gas and Mining

1594 West North Temple, Suite 1210

Box 145801

Salt Lake City, UT 84114-5801

Dear Lisha:

RE: Equitable Sale of Utah Properties

Effective September 30, 1997, Equitable Resources Energy Company sold all of its Utah properties to Inland Production Company.

Please feel free to contact me if you require additional information.

Sincerely,

Molly Conrad

Agent for Equitable Resources

Energy Company

/mc





Crazy Mountain Oil & Gas Services  
P.O. Box 577  
Laurel, MT 59044  
(406) 628-4164  
(406) 628-4165

TO: Lisha  
St of Utah.

FROM. Molly Conrad  
Crazy Mountain Oil & Gas Services  
(406) 628-4164

Pages Attached - Including Cover Sheet 2.

NOTE: Here is the letter you requested.  
Call if you need anything  
further.



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office  
P.O. Box 45155  
Salt Lake City, UT 84145-0155

IN REPLY REFER TO  
UT-931

March 2, 1998

Inland Production Company  
475 17th Street, Suite 1500  
Denver, Colorado 80202

Re: Beluga (Green River) Unit  
Duchesne County, Utah

Gentlemen:

On February 26, 1998, we received an indenture dated November 17, 1997, whereby Equitable Resources Energy Company resigned as Unit Operator and Inland Production Company was designated as Successor Unit Operator for the Beluga (Green River) Unit, Duchesne County, Utah.

This indenture was executed by all required parties and the signatory parties have complied with Sections 5 and 6 of the unit agreement. The instrument is hereby approved effective March 2, 1998. In approving this designation, the Authorized Officer neither warrants nor certifies that the designated party has obtained all required approval that would entitle it to conduct operations under the Beluga (Green River) Unit Agreement.

Your statewide (Utah) oil and gas bond No. 0056 will be used to cover all operations within the Beluga (Green River) Unit.

It is requested that you notify all interested parties of the change in unit operator. Copies of the approved instruments are being distributed to the appropriate federal offices, with one copy returned herewith.

Sincerely,

/s/ Robert A. Henricks

Robert A. Henricks  
Chief, Branch of Fluid Minerals

Enclosure

bcc: District Manager - Vernal (w/enclosure)  
Division of Oil, Gas & Mining  
Minerals Adjudication Group U-932  
File - Beluga (Green River) Unit (w/enclosure)  
MMS - Data Management Division  
Agr. Sec. Chron/Fluid Chron  
UT931:TAThompson:tt:3/2/98

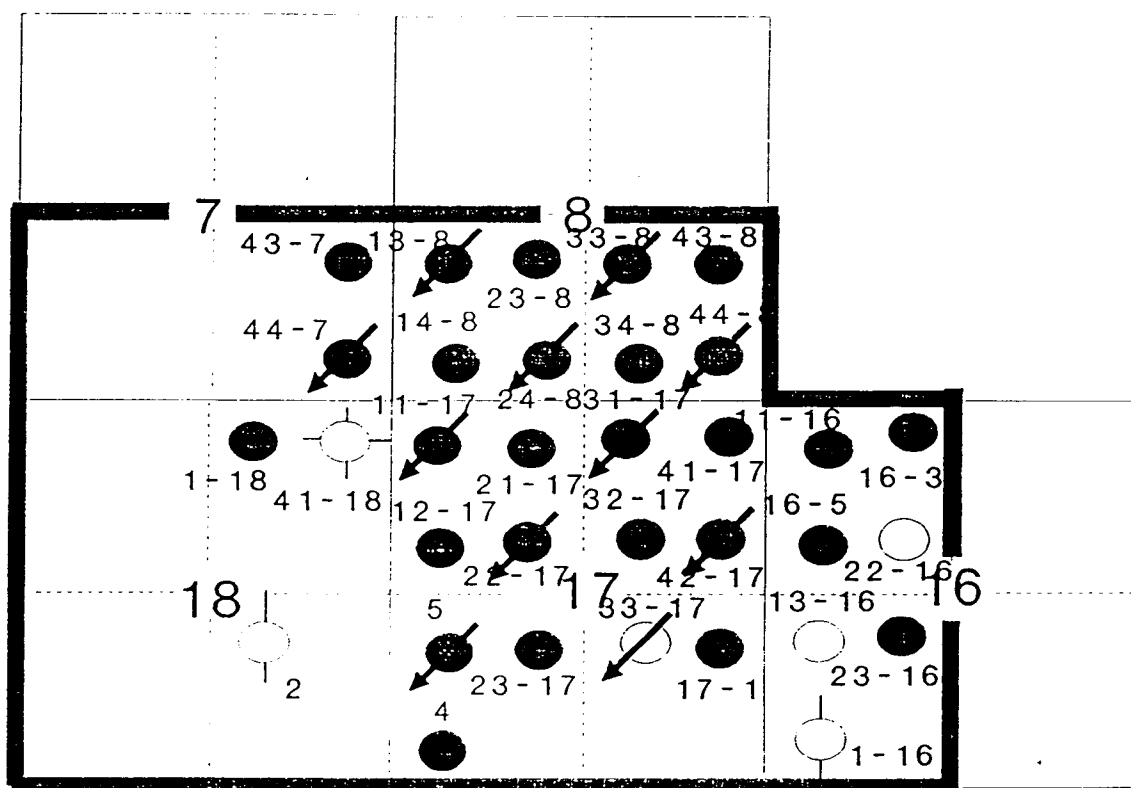
Well Status Report  
Utah State Office  
Bureau of Land Management

Lease	Api Number	Well Name	QTR	Section	Township	Range	Well Status	Operator
** Inspection Item: UTU75023X								
STATE	4301315582	1-16 SHELL-STATE	SWSW	16	T	9S	R17E POW	EQUITABLE RESOURCES ENERGY CO
UTU3563	4301330332	1-18 FEDERAL	NWNE	18	T	9S	R17E TA	EQUITABLE RESOURCES ENERGY CO
STATE	4301330616	11-16 STATE-NGC	NWNW	16	T	9S	R17E ABD (WIW)	EQUITABLE RESOURCES ENERGY CO
UTU72106	4301330516	11-17 PIUTE-FEDERAL	NWNW	17	T	9S	R17E WIW	EQUITABLE RESOURCES ENERGY CO
UTU72106	4301331431	12-17	SWNW	17	T	9S	R17E POW	EQUITABLE RESOURCES ENERGY CO
STATE	4301331580	13-16-9-17B	NWSW	16	T	9S	R17E WIW	EQUITABLE RESOURCES ENERGY CO
UTU74108	4301331382	13-8 MONUMENT FED	NWSW	8	T	9S	R17E WIW	EQUITABLE RESOURCES ENERGY CO
UTU74108	4301331398	14-8 MONUMENT FED	SWSW	8	T	9S	R17E POW	EQUITABLE RESOURCES ENERGY CO
STATE	4301330562	16-3 MORRIS SUE	NENW	16	T	9S	R17E POW	EQUITABLE RESOURCES ENERGY CO
STATE	4301330570	16-5 DUNCAN-STATE	SWNW	16	T	9S	R17E POW	EQUITABLE RESOURCES ENERGY CO
UTU44430	4301330689	17-1 FEDERAL-DMD	NESE	17	T	9S	R17E POW	EQUITABLE RESOURCES ENERGY CO
UTU3563	4301330505	2 POMCO	NWSE	18	T	9S	R17E TA	EQUITABLE RESOURCES ENERGY CO
UTU72106	4301331387	21-17 MONUMENT FED	NENW	17	T	9S	R17E POW	EQUITABLE RESOURCES ENERGY CO
STATE	4301331145	22-16-9-17B	SENW	16	T	9S	R17E WIW	EQUITABLE RESOURCES ENERGY CO
UTU72106	4301331429	22-17 MONUMENT FED	SENW	17	T	9S	R17E WIW	EQUITABLE RESOURCES ENERGY CO
STATE	4301331578	23-16-9-17B	NESW	16	T	9S	R17E POW	EQUITABLE RESOURCES ENERGY CO
UTU74108	4301331582	23-179-17B	NESW	17	T	9S	R17E POW	EQUITABLE RESOURCES ENERGY CO
UTU74108	4301331196	23-8 MAXUS-FEDERAL	NESW	8	T	9S	R17E POW	EQUITABLE RESOURCES ENERGY CO
UTU74108	4301330675	24-8 PIUTE-FEDERAL	SESW	8	T	9S	R17E WIW	EQUITABLE RESOURCES ENERGY CO
UTU72106	4301331428	31-17 MONUMENT BUTTE	NWNE	17	T	9S	R17E WIW	EQUITABLE RESOURCES ENERGY CO
UTU72106	4301331465	32-17	SWNE	17	T	9S	R17E POW	EQUITABLE RESOURCES ENERGY CO
UTU72106	4301331581	33-17-9-17B	NWSE	17	T	9S	R17E WIW	EQUITABLE RESOURCES ENERGY CO
UTU74108	4301331427	33-8 MONUMENT FED	NWSE	8	T	9S	R17E WIW	EQUITABLE RESOURCES ENERGY CO
UTU74108	4301330778	34-8 PAIUTE	SWSE	8	T	9S	R17E POW	EQUITABLE RESOURCES ENERGY CO
UTU74108	4301330506	4 POMCO	SWSW	17	T	9S	R17E POW	EQUITABLE RESOURCES ENERGY CO
UTU72106	4301331466	41-17	NENE	17	T	9S	R17E POW	EQUITABLE RESOURCES ENERGY CO
UTU72106	4301331399	41-18 BALCROW FED	NENE	18	T	9S	R17E ABD (PA)	EQUITABLE RESOURCES ENERGY CO
UTU72106	4301331467	42-17	SENE	17	T	9S	R17E WIW	EQUITABLE RESOURCES ENERGY CO
UTU72106	4301331432	43-7 MONUMENT BUTTE	NESE	7	T	9S	R17E POW	EQUITABLE RESOURCES ENERGY CO
UTU74108	4301330777	43-8 PAIUTE	NESE	8	T	9S	R17E POW	EQUITABLE RESOURCES ENERGY CO
UTU72106	4301330666	44-7 MOCOW-FEDERAL	SESE	7	T	9S	R17E WIW	EQUITABLE RESOURCES ENERGY CO
UTU74398	4301330643	44-8-9-17	SESE	8	T	9S	R17E WIW	EQUITABLE RESOURCES ENERGY CO
UTU74108	4301330499	5 POMCO	NWSW	17	T	9S	R17E WIW	EQUITABLE RESOURCES ENERGY CO

# BELUGA (GREEN RIVER) UNIT

## DUCHESNE COUNTY, UTAH

EFFECTIVE: FEBRUARY 1, 1996



17E

— UNIT OUTLINE (UTU75023X)

2,223.13 ACRES

### SECONDARY ALLOCATION

FEDERAL	89.74%
STATE	10.26%

## OPERATOR CHANGE WORKSHEET

Attach all documentation received by the division regarding this change.

Initial each listed item when completed. Write N/A if item is not applicable.

Routing	
1-REC <i>[initials]</i>	6-LET <i>[initials]</i>
2-GLH <i>[initials]</i>	7-KAS <i>[initials]</i>
3-ETS <i>[initials]</i>	8-SI <i>[initials]</i>
4-VLD <i>[initials]</i>	9-FILE <i>[initials]</i>
5-JRB <i>[initials]</i>	

☒ Change of Operator (well sold)☐ Designation of Agent☐ Designation of Operator☐ Operator Name Change OnlyThe operator of the well(s) listed below has changed, effective: 9-30-97TO: (new operator) INLAND PRODUCTION CO.  
(address) PO BOX 1446ROOSEVELT UT 84066Phone: (435) 722-5103Account no. N5160FROM: (old operator)  
(address)EQUITABLE RESOURCES ENERGY  
C/O CRAZY MTN O&G SVS'SPO BOX 577LAUREL MT 59044Phone: (406) 628-4164Account no. N9890

WELL(S) attach additional page if needed:

**\*BELUGA (GREEN RIVER) UNIT**

Name: <b>**SEE ATTACHED**</b>	API: <u>43-013-31428</u>	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____

## OPERATOR CHANGE DOCUMENTATION

- [initials]* 1. (r649-8-10) Sundry or other legal documentation has been received from the **FORMER** operator (attach to this form). *(Rec'd 3-10-97)*
- [initials]* 2. (r649-8-10) Sundry or other legal documentation has been received from the **NEW** operator (Attach to this form). *(Rec'd 10-20-97)*
- [initials]* 3. The **Department of Commerce** has been contacted if the new operator above is not currently operating any wells in Utah. Is the company **registered with the state?** (yes/no) \_\_\_\_ If yes, show company file number: \_\_\_\_\_
- [initials]* 4. **FOR INDIAN AND FEDERAL WELLS ONLY.** The BLM has been contacted regarding this change. Make note of BLM status in comments section of this form. BLM approval of **Federal** and **Indian** well operator changes should ordinarily take place prior to the division's approval, and before the completion of **steps 5 through 9** below.
- [initials]* 5. Changes have been entered in the **Oil and Gas Information System** (3270) for each well listed above. *(3-11-98) X Quattro Pro & DBASE (WIC) 3-11-98.*
- [initials]* 6. **Cardex** file has been updated for each well listed above. *(3-11-98)*
- [initials]* 7. Well **file labels** have been updated for each well listed above. *(3-11-98)*
- [initials]* 8. Changes have been included on the monthly "Operator, Address, and Account Changes" **memo** for distribution to Trust Lands, Sovereign Lands, UGS, Tax Commission, etc. *(3-11-98)*
- [initials]* 9. A folder has been set up for the **Operator Change file**, and a copy of this page has been placed there for reference during routing and processing of the original documents.

## ENTITY REVIEW

- Sec 1. (r649-8-7) **Entity assignments have been reviewed** for all wells listed above. Were entity changes made? (yes/no) no If entity assignments were changed, attach copies of Form 6, Entity Action Form.
- N/A/Sec 2. Trust Lands, Sovereign Lands, Tax Commission, etc., have been **notified** through normal procedures of entity changes.

## BOND VERIFICATION - (FEE WELLS ONLY) Trust Lands - 80,000 Surety "Hartford Acc. & Indemnity Co."

- N/A/Sec 1. (r649-3-1) The **NEW** operator of any fee lease well listed above has furnished a proper bond.
- N/A/Sec 2. A **copy of this form** has been placed in the new and former operator's bond files.
- N/A/Sec 3. The **FORMER** operator has requested a release of liability from their bond (yes/no) no, as of today's date                     . If yes, division response was made to this request by letter dated                     .

## LEASE INTEREST OWNER NOTIFICATION OF RESPONSIBILITY

- Sec 1. Copies of documents have been sent on 3-11-98 to Ed Bonner at Trust Lands for changes involving State leases, in order to remind that agency of their responsibility to review for proper bonding.
- N/A/Sec 2. (r649-2-10) The former operator of any fee lease wells listed above has been contacted and informed by letter dated                      19     , of their responsibility to notify all interest owners of this change.

## FILMING

- VB 1. All attachments to this form have been **microfilmed**. Today's date: 4.14.98.

## FILING

1. **Copies** of all attachments to this form have been filed in each **well file**.
2. The **original of this form**, and the **original attachments** are now being filed in the Operator Change file.

## COMMENTS

980311 Blm/SL Apr. 3-2-98.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

1. <b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT-" for such proposals.)		5. LEASE DESIGNATION AND SERIAL NO. <b>UTU-72106</b>	
2. NAME OF OPERATOR <b>INLAND PRODUCTION COMPANY</b>		6. IF INDIAN, ALLOTTEE OR TRIBAL NAME  <b>N/A</b>	
3. ADDRESS OF OPERATOR <b>Rt. 3 Box 3630, Myton Utah 84052 435-646-3721</b>		7. UNIT AGREEMENT NAME  <b>BELUGA</b>	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface <b>NW/NE Section 17, T09S R17E 660 FNL 1980 FEL</b>		8. FARM OR LEASE NAME <b>MONUMENT FED 31-17-9-17</b>	
9. WELL NO. <b>MONUMENT FED 31-17-9-17</b>		10. FIELD AND POOL OR WILDCAT  <b>MONUMENT BUTTE</b>	
11. SEC., T., R., M. OR BLK. AND SURVEY OR AREA <b>NW/NE Section 17, T09S R17E</b>		12. COUNTY OR PARISH <b>DUCHESNE</b>	
13. STATE <b>UT</b>		14. API NUMBER <b>43-013-31428</b>	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) <b>5360 GR</b>		16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data	

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
DEST. WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	<input type="checkbox"/>	(OTHER) <input checked="" type="checkbox"/> <b>5 Year MIT</b>	
(OTHER) <input type="checkbox"/>	<input type="checkbox"/>	(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17 DESCRIBE PROPOSED OR COMPLETED OPERATIONS. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

A 5 year MIT was conducted on the subject well. On 10/2/01 Mr. Al Craver w/ EPA was notified of the intent to conduct a MIT on the casing. On 10/17/01 Mr. Dennis Ingram was also contacted. On 10/17/01 the casing was pressured to 1000 psi w/ no pressure loss charted in the 1/2 hour test. No governmental agencies were able to witness the test. The well was injecting during the test.

**RECEIVED**

001 19 2001

**DIVISION OF  
OIL, GAS AND MINING**

18 I hereby certify that the foregoing is true and correct

SIGNED Krishna Russell TITLE Production Clerk DATE 10/18/01  
Krishna Russell

cc: BLM

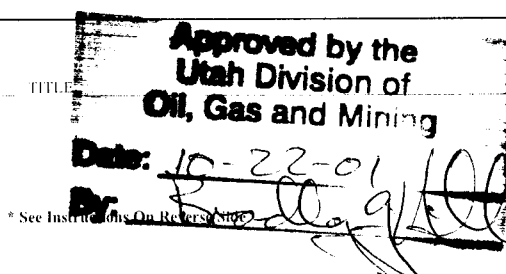
(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY



10-22-01  
(412)

# Mechanical Integrity Test

## Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency  
Underground Injection Control Program, UIC Direct Implementation Program 8P-W-GW  
999 18th Street, Suite 500 Denver, CO 80202-2466

EPA Witness: N/A Date: 10 / 17 / 01  
Test conducted by: Brent Cook  
Others present: Corky Marx

Well Name: <u>MF 31-17-9-17</u>	Type: <u>ER</u> SWD	Status: <u>AC</u> TA UC	
Field: <u>Beluga</u>			
Location: <u>31</u>	Sec: <u>17</u> T <u>9</u>	N/S R <u>17</u> E/W	County: <u>Duch</u> State: <u>UT</u>
Operator: <u>Inland Production</u>			
Last MIT: <u>11 / 13 / 96</u>	Maximum Allowable Pressure: <u>1855</u>		PSIG

Is this a regularly scheduled test? ☒ Yes ☐ No  
 Initial test for permit? ☐ Yes ☒ No  
 Test after well rework? ☐ Yes ☒ No  
 Well injecting during test? ☒ Yes ☐ No If yes, rate: 60 bpd

Pre-test casing/tubing annulus pressure: \_\_\_\_\_ psig

MIT DATA TABLE		Test #1	Test #2	Test #3
TUBING PRESSURE				
Initial pressure	1830	psig	psig	psig
End of test pressure	1830	psig	psig	psig
CASING/TUBING ANNULUS PRESSURE				
0 minutes	1120	psig	psig	psig
5 minutes	1120	psig	psig	psig
10 minutes	1120	psig	psig	psig
15 minutes	1120	psig	psig	psig
20 minutes	1120	psig	psig	psig
25 minutes	1120	psig	psig	psig
30 minutes	1120	psig	psig	psig
_____ minutes		psig	psig	psig
_____ minutes		psig	psig	psig
RESULT	[ <input checked="" type="checkbox"/> Pass [ ] Fail		[ ] Pass [ ] Fail [ ] Pass [ ] Fail	

Does the annulus pressure build back up after the test? ☐ Yes ☒ No



## MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

This image shows a single sheet of white paper with horizontal black ruling lines. The lines are evenly spaced and run across the width of the page. There is no handwriting or other markings on the paper.

Signature of Witness: \_\_\_\_\_

## OFFICE USE ONLY - COMPLIANCE FOLLOWUP

Staff \_\_\_\_\_ Date:     /     /

Do you agree with the reported test results?    ☐ YES    ☐ NO

If not, why? \_\_\_\_\_

Possible violation identified? ☐ YES ☐ NO

If YES, what \_\_\_\_\_

If YES - followup initiated? ☐ YES

☐ NO - why not? \_\_\_\_\_



## Office of the Secretary of State

The undersigned, as Secretary of State of Texas, does hereby certify that the attached is a true and correct copy of each document on file in this office as described below:

Newfield Production Company  
Filing Number: 41530400

Articles of Amendment

September 02, 2004

In testimony whereof, I have hereunto signed my name officially and caused to be impressed hereon the Seal of State at my office in Austin, Texas on September 10, 2004.



A handwritten signature in black ink, appearing to read "G. Connor".

Secretary of State

ARTICLES OF AMENDMENT  
TO THE  
ARTICLES OF INCORPORATION  
OF  
INLAND PRODUCTION COMPANY

FILED  
In the Office of the  
Secretary of State of Texas

SEP 02 2004  
Corporations Section

Pursuant to the provisions of Article 4.04 of the Texas Business Corporation Act (the "TBCA"), the undersigned corporation adopts the following articles of amendment to the articles of incorporation:

ARTICLE 1 – Name

The name of the corporation is Inland Production Company.

ARTICLE 2 – Amended Name

The following amendment to the Articles of Incorporation was approved by the Board of Directors and adopted by the shareholders of the corporation on August 27, 2004.

The amendment alters or changes Article One of the Articles of Incorporation to change the name of the corporation so that, as amended, Article One shall read in its entirety as follows:

"ARTICLE ONE – The name of the corporation is Newfield Production Company."

ARTICLE 3 – Effective Date of Filing

This document will become effective upon filing.

The holder of all of the shares outstanding and entitled to vote on said amendment has signed a consent in writing pursuant to Article 9.10 of the TBCA, adopting said amendment, and any written notice required has been given.

IN WITNESS WHEREOF, the undersigned corporation has executed these Articles of Amendment as of the 1<sup>st</sup> day of September, 2004.

INLAND RESOURCES INC.

By: Susan G. Riggs  
Susan G. Riggs, Treasurer



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office  
P.O. Box 45155  
Salt Lake City, UT 84145-0155  
<http://www.blm.gov>



IN REPLY REFER TO:  
3106  
(UT-924)

September 16, 2004

### Memorandum

To: Vernal Field Office

From: Acting Chief, Branch of Fluid Minerals

Subject: Merger Approval

Attached is an approved copy of the name change recognized by the Utah State Office. We have updated our records to reflect the merger from Inland Production Company into Newfield Production Company on September 2, 2004.

Michael Coulthard  
Acting Chief, Branch of  
Fluid Minerals

### Enclosure

1. State of Texas Certificate of Registration

cc: MMS, Reference Data Branch, James Sykes, PO Box 25165, Denver CO 80225  
State of Utah, DOGM, Attn: Earlene Russell, PO Box 145801, SLC UT 84114  
Teresa Thompson  
Joe Incardine  
Connie Seare

UTSL-	15855	61052	73088	76561	
071572A	16535	62848	73089	76787	
065914	16539	63073B	73520A	76808	
	16544	63073D	74108	76813	
	17036	63073E	74805	76954	63073X
	17424	63073O	74806	76956	63098A
	18048	64917	74807	77233	68528A
UTU-	18399	64379	74808	77234	72086A
	19267	64380	74389	77235	72613A
02458	26026A	64381	74390	77337	73520X
03563	30096	64805	74391	77338	74477X
03563A	30103	64806	74392	77339	75023X
04493	31260	64917	74393	77357	76189X
05843	33992	65207	74398	77359	76331X
07978	34173	65210	74399	77365	76788X
09803	34346	65635	74400	77369	77098X
017439B	36442	65967	74404	77370	77107X
017985	36846	65969	74405	77546	77236X
017991	38411	65970	74406	77553	77376X
017992	38428	66184	74411	77554	78560X
018073	38429	66185	74805	78022	79485X
019222	38431	66191	74806	79013	79641X
020252	39713	67168	74826	79014	80207X
020252A	39714	67170	74827	79015	81307X
020254	40026	67208	74835	79016	
020255	40652	67549	74868	79017	
020309D	40894	67586	74869	79831	
022684A	41377	67845	74870	79832	
027345	44210	68105	74872	79833	
034217A	44426	68548	74970	79831	
035521	44430	68618	75036	79834	
035521A	45431	69060	75037	80450	
038797	47171	69061	75038	80915	
058149	49092	69744	75039	81000	
063597A	49430	70821	75075		
075174	49950	72103	75078		
096547	50376	72104	75089		
096550	50385	72105	75090		
	50376	72106	75234		
	50750	72107	75238		
10760	51081	72108	76239		
11385	52013	73086	76240		
13905	52018	73087	76241		
15392	58546	73807	76560		

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

UIC FORM 5

## TRANSFER OF AUTHORITY TO INJECT

Well Name and Number See Attached List		API Number
Location of Well		Field or Unit Name See Attached List
Footage :	County :	Lease Designation and Number
QQ, Section, Township, Range:	State : UTAH	

EFFECTIVE DATE OF TRANSFER: 9/1/2004

## CURRENT OPERATOR

Company: Inland Production Company  
Address: 1401 17th Street Suite 1000  
city Denver state Co zip 80202  
Phone: (303) 893-0102  
Comments:

Name: Brian Harris  
Signature: *Brian Harris*  
Title: Engineering Tech.  
Date: 9/15/2004

## NEW OPERATOR

Company: Newfield Production Company  
Address: 1401 17th Street Suite 1000  
city Denver state Co zip 80202  
Phone:  
Comments:

Name: Brian Harris  
Signature: *Brian Harris*  
Title: Engineering Tech.  
Date: 9/15/2004

(This space for State use only)

Transfer approved by:

Title:

Approval Date:

Comments:

*Note: Indian Country wells will require EPA approval.*

(9/2003)

RECEIVED

SEP 20 2004

DIV. OF OIL, GAS &amp; MINING

## OPERATOR CHANGE WORKSHEET

## ROUTING

1. GLH

2. CDW

3. FILE

Change of Operator (Well Sold)

Designation of Agent/Operator

**X Operator Name Change****Merger**

The operator of the well(s) listed below has changed, effective:

**9/1/2004****FROM: (Old Operator):**

N5160-Inland Production Company

Route 3 Box 3630

Myton, UT 84052

Phone: 1-(435) 646-3721

**TO: ( New Operator):**

N2695-Newfield Production Company

Route 3 Box 3630

Myton, UT 84052

Phone: 1-(435) 646-3721

**CA No.****Unit:****BELUGA (GREEN RIVER)****WELL(S)**

NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
MONUMENT FED 43-7	07	090S	170E	4301331432	11880	Federal	OW	P
BELUGA 15-7-9-17	07	090S	170E	4301331579	11880	Federal	OW	P
BELUGA 10-7-9-17	07	090S	170E	4301332048	11880	Federal	WI	A
BELUGA 14-7-9-17	07	090S	170E	4301332049	11880	Federal	WI	A
MON FED 33-8	08	090S	170E	4301331427	11880	Federal	WI	A
MON ST 23-16-9-17B	16	090S	170E	4301331578	11880	State	OW	P
MON ST 13-16-9-17B	16	090S	170E	4301331580	11880	State	WI	A
MON FED 31-17	17	090S	170E	4301331428	11880	Federal	WI	A
MON FED 22-17	17	090S	170E	4301331429	11880	Federal	WI	A
BALCRON MON FED 12-17	17	090S	170E	4301331431	11880	Federal	OW	P
MONUMENT FED 32-17	17	090S	170E	4301331465	11880	Federal	OW	P
MONUMENT FED 41-17	17	090S	170E	4301331466	11880	Federal	OW	P
BALCRON MON FED 42-17	17	090S	170E	4301331467	11880	Federal	WI	A
MON FED 33-17-9-17B	17	090S	170E	4301331581	11880	Federal	WI	A
MON FED 23-17-9-17B	17	090S	170E	4301331582	11880	Federal	OW	P
BELUGA 3-18-9-17	18	090S	170E	4301332050	11880	Federal	OW	P
BELUGA 7-18-9-17	18	090S	170E	4301332051	11880	Federal	OW	TA
BELUGA 8-18-9-17	18	090S	170E	4301332052	11880	Federal	WI	A
BELUGA 9-18-9-17	18	090S	170E	4301332053	11880	Federal	OW	P
BELUGA U 4-18-9-17	18	090S	170E	4301332274	11880	Federal	OW	P

**OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 9/15/20042. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 9/15/20043. The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 2/23/20054. Is the new operator registered in the State of Utah: YES Business Number: 755627-01435. If **NO**, the operator was contacted on:

6a. (R649-9-2)Waste Management Plan has been received on: IN PLACE  
6b. Inspections of LA PA state/fee well sites complete on: waived

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM BIA

8. **Federal and Indian Units:**  
The BLM or BIA has approved the successor of unit operator for wells listed on: n/a

9. **Federal and Indian Communization Agreements ("CA"):**  
The BLM or BIA has approved the operator for all wells listed within a CA on: na/

10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 2/23/2005

#### DATA ENTRY:

- Changes entered in the **Oil and Gas Database** on: 2/28/2005
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 2/28/2005
- Bond information entered in RBDMS on: 2/28/2005
- Fee/State wells attached to bond in RBDMS on: 2/28/2005
- Injection Projects to new operator in RBDMS on: 2/28/2005
- Receipt of Acceptance of Drilling Procedures for APD/New on: waived

#### FEDERAL WELL(S) BOND VERIFICATION:

- Federal well(s) covered by Bond Number: UT 0056

#### INDIAN WELL(S) BOND VERIFICATION:

- Indian well(s) covered by Bond Number: 61BSBDH2912

#### FEE & STATE WELL(S) BOND VERIFICATION:

- (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number 61BSBDH2919
- The **FORMER** operator has requested a release of liability from their bond on: n/a\*  
The Division sent response by letter on: n/a

#### LEASE INTEREST OWNER NOTIFICATION:

- (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

#### COMMENTS:

\*Bond rider changed operator name from Inland Production Company to Newfield Production Company - received 2/23/05



DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING				5. LEASE DESIGNATION AND SERIAL NUMBER: USA UTU-72106
<h2 style="text-align: center;">SUNDRY NOTICES AND REPORTS ON WELLS</h2> <p style="text-align: center;">Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.</p>				6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
				7. UNIT or CA AGREEMENT NAME: BELUGA UNIT
1. TYPE OF WELL:      OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>				8. WELL NAME and NUMBER: MON 31-17-9-18
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY				9. API NUMBER: 4301331428
3. ADDRESS OF OPERATOR: Route 3 Box 3630      CITY Myton      STATE UT      ZIP 84052			PHONE NUMBER 435.646.3721	10. FIELD AND POOL, OR WILDCAT: MONUMENT BUTTE
4. LOCATION OF WELL: FOOTAGES AT SURFACE: 660 FNL 1980 FEL				COUNTY: DUCHESNE
OTR/OTR SECTION. TOWNSHIP. RANGE. MERIDIAN:    NWNE, 17, T9S, R17E				STATE:    UT

TYPE OF SUBMISSION		TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will  <hr/>	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION (START/STOP) <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARITLY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLAIR <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUT-OFF <input checked="" type="checkbox"/> OTHER: - 5 Year MIT	
	<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of Work Completion:  <hr/> 10/09/2006			

On 09/26/06 Nathan Wiser with the EPA was contacted concerning the 5-year MIT on the above listed well. Permission was given at that time to perform the test on 10/09/06. On 10/09/06 the csg was pressured up to 1250 psig and charted for 30 minutes with 0 psi pressure loss. The well was injecting during the test. The tbq pressure was 1700 psig during the test. There was not an EPA representative available to witness the test. EPA# 20798-04313 API# 43-047-35591.

**Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY**

(This space for State use only)

DIV. OF OIL, GAS & MINING

# Mechanical Integrity Test

## Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency  
Underground Injection Control Program  
999 18<sup>th</sup> Street, Suite 500 Denver, CO 80202-2466

EPA Witness: \_\_\_\_\_ Date: 10/09/06  
Test conducted by: Trefley J. Raza  
Others present: \_\_\_\_\_

Well Name: <u>BELKIN MONUMENT Fld</u>	Type: <u>ER SWD</u>	Status: <u>AC TA UC</u>
Field: <u>MONUMENT BUTTE</u>		
Location: <u>NW/NE</u> Sec: <u>17</u> T <u>9</u> N (S) R <u>17E</u> W County: <u>Duchesne</u> State: <u>UT</u>		
Operator: <u>New Field</u>		
Last MIT: <u>1</u>	Maximum Allowable Pressure: _____	PSIG

Is this a regularly scheduled test? ☒ Yes ☐ No  
Initial test for permit? ☐ Yes ☒ No  
Test after well rework? ☐ Yes ☒ No  
Well injecting during test? ☐ Yes ☒ No If Yes, rate: \_\_\_\_\_ bpd

Pre-test casing/tubing annulus pressure: 0 psig

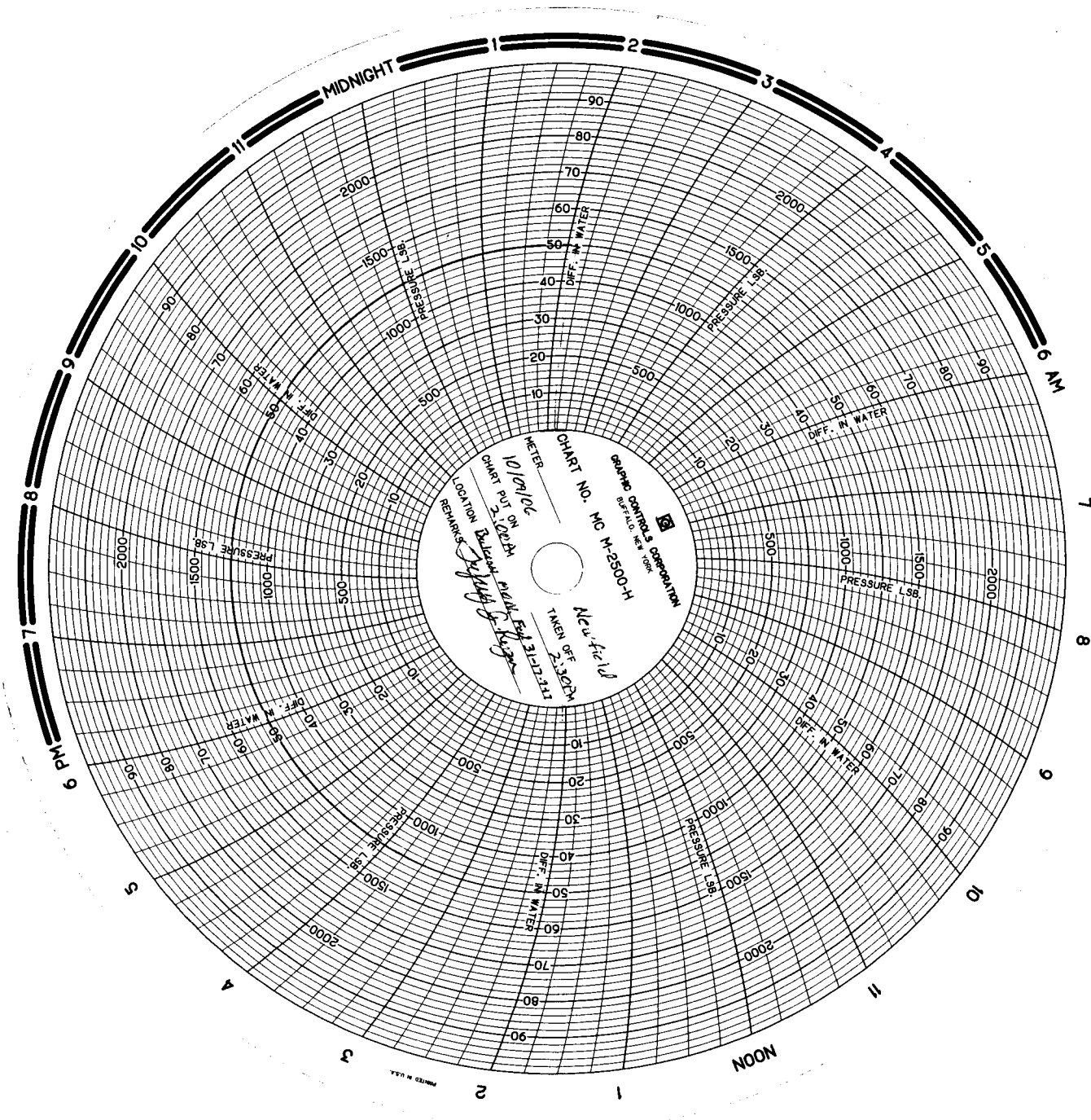
MIT DATA TABLE	Test #1	Test #2	Test #3
<b>TUBING PRESSURE</b>			
Initial Pressure	<u>1700</u> psig	psig	psig
End of test pressure	<u>1700</u> psig	psig	psig
<b>CASING / TUBING ANNULUS PRESSURE</b>			
0 minutes	<u>1250</u> psig	psig	psig
5 minutes	<u>1250</u> psig	psig	psig
10 minutes	<u>1250</u> psig	psig	psig
15 minutes	<u>1250</u> psig	psig	psig
20 minutes	<u>1250</u> psig	psig	psig
25 minutes	<u>1250</u> psig	psig	psig
30 minutes	<u>1250</u> psig	psig	psig
_____ minutes	psig	psig	psig
_____ minutes	psig	psig	psig
<b>RESULT</b>	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

Does the annulus pressure build back up after the test? ☐ Yes ☒ No

## MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

Signature of Witness: \_\_\_\_\_



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-72106
<b>1. TYPE OF WELL</b> Water Injection Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY		<b>7. UNIT or CA AGREEMENT NAME:</b> GMBU (GRRV)
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630 , Myton, UT, 84052		<b>8. WELL NAME and NUMBER:</b> MON FED 31-17
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0660 FNL 1980 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNE Section: 17 Township: 09.0S Range: 17.0E Meridian: S		<b>9. API NUMBER:</b> 43013314280000
<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE		<b>COUNTY:</b> DUCHESNE
<b>STATE:</b> UTAH		
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start:	<input type="checkbox"/> <b>ACIDIZE</b>	
<input checked="" type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion: 9/29/2011	<input type="checkbox"/> <b>CHANGE TO PREVIOUS PLANS</b>	
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> <b>CHANGE WELL STATUS</b>	
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> <b>DEEPEN</b>	
	<input type="checkbox"/> <b>OPERATOR CHANGE</b>	
	<input type="checkbox"/> <b>PRODUCTION START OR RESUME</b>	
	<input type="checkbox"/> <b>REPERFORATE CURRENT FORMATION</b>	
	<input type="checkbox"/> <b>TUBING REPAIR</b>	
	<input type="checkbox"/> <b>WATER SHUTOFF</b>	
	<input type="checkbox"/> <b>WILDCAT WELL DETERMINATION</b>	
	<input type="checkbox"/> <b>ALTER CASING</b>	
	<input type="checkbox"/> <b>CHANGE TUBING</b>	
	<input type="checkbox"/> <b>COMMINGLE PRODUCING FORMATIONS</b>	
	<input type="checkbox"/> <b>FRACTURE TREAT</b>	
	<input type="checkbox"/> <b>PLUG AND ABANDON</b>	
	<input type="checkbox"/> <b>RECLAMATION OF WELL SITE</b>	
	<input type="checkbox"/> <b>SIDETRACK TO REPAIR WELL</b>	
	<input type="checkbox"/> <b>VENT OR FLARE</b>	
	<input type="checkbox"/> <b>SI TA STATUS EXTENSION</b>	
	<input checked="" type="checkbox"/> <b>OTHER</b>	
	<input type="checkbox"/> <b>CASING REPAIR</b>	
	<input type="checkbox"/> <b>CHANGE WELL NAME</b>	
	<input type="checkbox"/> <b>CONVERT WELL TYPE</b>	
	<input type="checkbox"/> <b>NEW CONSTRUCTION</b>	
	<input type="checkbox"/> <b>PLUG BACK</b>	
	<input type="checkbox"/> <b>RECOMPLETE DIFFERENT FORMATION</b>	
	<input type="checkbox"/> <b>TEMPORARY ABANDON</b>	
	<input type="checkbox"/> <b>WATER DISPOSAL</b>	
	<input type="checkbox"/> <b>APD EXTENSION</b>	
	OTHER: <input style="width: 100px;" type="text" value="5 YR MIT"/>	
<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b>  On 09/14/2011 Nathan Wiser with the EPA was contacted concerning the 5 year MIT on the above listed well. On 09/29/2011 the casing was pressured up to 1380 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 1775 psig during the test. There was not an EPA representative available to witness the test. <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">             EPA# UT20798-04315           </div> <div style="text-align: center;"> <b>Accepted by the Utah Division of Oil, Gas and Mining</b>  <b>FOR RECORD ONLY</b> </div> </div>		
<b>NAME (PLEASE PRINT)</b> Lucy Chavez-Naupoto	<b>PHONE NUMBER</b> 435 646-4874	<b>TITLE</b> Water Services Technician
<b>SIGNATURE</b> N/A	<b>DATE</b> 10/5/2011	

# Mechanical Integrity Test

## Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency  
Underground Injection Control Program  
999 18<sup>th</sup> Street, Suite 500 Denver, CO 80202-2466

EPA Witness: \_\_\_\_\_ Date: 9 / 29 / 11  
Test conducted by: Tom Van Auschel  
Others present: \_\_\_\_\_

Well Name: <u>Monument Federal</u>	Type: ER SWD	Status: AC TA UC
Field: <u>South Myton Newfield</u>		
Location: <u>31</u> Sec: <u>17</u> T <u>9</u> N / <u>S</u> R <u>17</u> <u>E</u> / W	County: <u>Duchesne</u>	State: <u>UT</u>
Operator: <u>Tom Van Auschel</u>		
Last MIT: <u>      </u> / <u>      </u> / <u>      </u>	Maximum Allowable Pressure: <u>1855</u>	PSIG

Is this a regularly scheduled test? ☒ Yes ☐ No  
Initial test for permit? ☐ Yes ☒ No  
Test after well rework? ☐ Yes ☒ No  
Well injecting during test? ☐ Yes ☒ No If Yes, rate: \_\_\_\_\_ bpd

Pre-test casing/tubing annulus pressure: 0 psig

MIT DATA TABLE	Test #1	Test #2	Test #3
<b>TUBING PRESSURE</b>			
Initial Pressure	<u>1775</u> psig	psig	psig
End of test pressure	<u>1775</u> psig	psig	psig
<b>CASING / TUBING ANNULUS PRESSURE</b>			
0 minutes	<u>1380</u> psig	psig	psig
5 minutes	<u>1380</u> psig	psig	psig
10 minutes	<u>1380</u> psig	psig	psig
15 minutes	<u>1380</u> psig	psig	psig
20 minutes	<u>1380</u> psig	psig	psig
25 minutes	<u>1380</u> psig	psig	psig
30 minutes	<u>1380</u> psig	psig	psig
<u>40</u> minutes	<u>1380</u> psig	psig	psig
_____ minutes	psig	psig	psig
<b>RESULT</b>	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

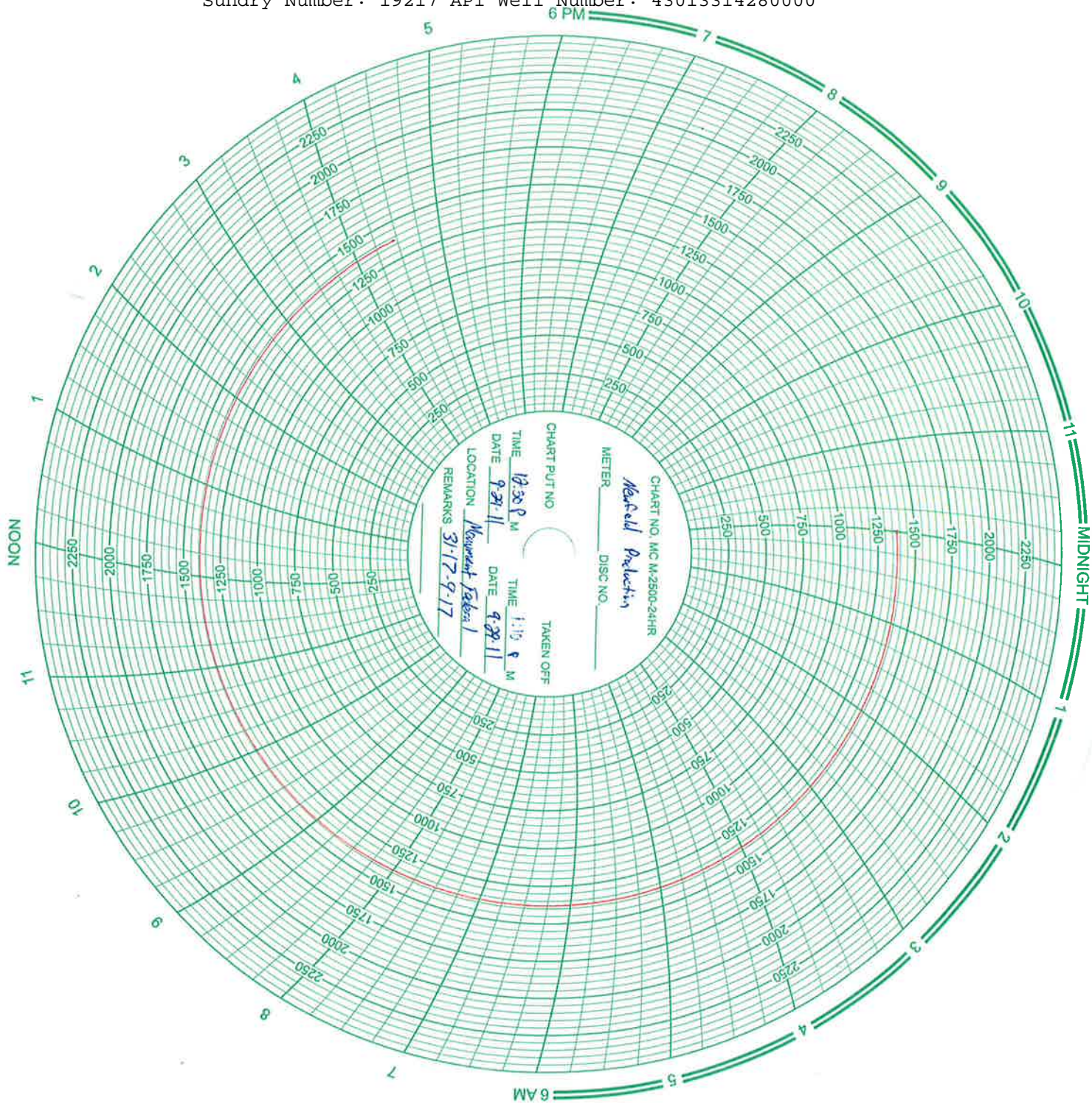
Does the annulus pressure build back up after the test? ☐ Yes ☒ No

## MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

Signature of Witness: \_\_\_\_\_





Spud Date: 5/8/94

Completion Date: 6/13/94

GL: 5359.8' KB: 5369.8' KB (10' KB)

## Balcron Monument Fed #31-17

### Injection Diagram

Initial Production: 110 BO, 17 BW

#### SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 347.15' (3 jts)  
DEPTH LANDED: 355' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 225 sxs class "G" + 2%  
CaCl + 1/4 #/sk CelloSeal

#### PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: K-55  
WEIGHT: 15.5#  
LENGTH: 5732.98' (132 jts)  
DEPTH LANDED: 5741.98' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 165 sxs Class "G" w/ 4% Thrifty  
Lite + 3% salt + 3 #/sk CSE +  
1/4 #/sk celloseal, tailed w/ 275  
sxs 50-50 POZ + 2% gel + 10%  
salt + 1/4 #/sk celloseal  
CEMENT TOP AT: 2410' K

#### Tubing Record

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 127 jts (3913.81')  
SEATING NIPPLE: 2-7/8" X 1.1'  
ARROW SET 1 PACKER: 2-3/8"x5-1/2"x6.20"  
PACKER LANDED AT: 3925' KB  
PKR Set W/ 9" (10,000#) Tension  
CONVERSION:  
1.) Tag fill @ 5683' KB  
2.) T/H w/ RBP & PKR and pump filtered  
KCL water to establish injection rate  
into each zone.  
3.) Replace 2-3/8" tbg with new 2-7/8" tbg  
from Marla-Co.  
4.) Pump PKR fluid and Set Arrow Set-1 PKR  
@ 3925'. Press. test csg to 1000 psi. Good.  
PACKER FLUID: Champion Cottron 2383 PKR fluid  
mixed w/ 61 bbls 2% KCl water. 10/18/96  
MIT RECORD: 11/13/96 Witnessed by  
Dan Jarvis w/ the Utah  
Oil & Gas Commission.  
1520 psi had been applied 24 hr  
previously & still holding 1520 psi.

**NEWFIELD**

Balcron Monument Federal #31-17  
660 FNL 1980 FEL  
NW NE Section 17-T9S-R17E  
Duchesne Co, Utah  
API #43-013-31428; Lease #UTU-72106

#### FRAC JOB

5576' - 5585' 5/24/94 29,109 gal 2% KCl gel w/ 30,880 #  
5412' - 5422' 20/40 + 21,500# 16/30, Flushed w/  
5409 gal 2% KCl wtr. ATP-2480#,  
ATR-30.1 bpm, ISIP-1650#, 5min-1520,  
10min-1480, 15min-1410, force closure  
4958' - 4963' 5/26/94 17,366 gal 2% KCl gel w/ 33,300 #  
4948' - 4954' 16/30, Flush w/ 4956 gal 2% KCl wtr  
ATP-2500#, ATR-29.9 bpm, ISIP-2150#,  
5min-1940, 10min-1750, 15min-1650.  
4586' - 4592' 6/1/94 16,328 gal 2% KCl gel w/ 25,000#  
4678' - 4680' 16/30, Flush w/ 4578 gal 2% KCl wtr.  
4688' - 4692' ATP-3500#, ATR-29.9 bpm, ISIP-1900#,  
5min-1700, 10min-1630, 15min-1580.  
4034' - 4036' 6/1/94 27,998 gal 2% KCl gel w/ 50,280#  
4014' - 4025' 16/30 ATP-2200#, ATR-31 bpm, ISIP-  
1950#, 5min-1800, 10min-1720,  
15min-1500, 20min-1430, 30min-1280

#### ACID JOB / BREAKDOWN JOB

5576' - 5585' 5/24/94 500 gal 15% HCl + 126 gal 2% KCl  
wtr w/ 20 ball sealers. No ball off.  
ATP-2400#, ATR-4 bpm, ISIP-1600#  
5412' - 5422' 5/24/94 500 gal 15% HCl + 126 gal 2% KCl  
wtr w/ 14 ball sealers. Balled off.  
ATP-3600#, ATR-4 bpm, ISIP-1200#  
4958' - 4963' 5/26/94 2688 gal 2% KCl w/ 100 ball sealers.  
4948' - 4954' Balled out ATP-3000#, ATR-6 bpm,  
ISIP-1800#, 5min-1230, 10min-810,  
15min-610, 20min-600, 30min-390.  
4688' - 4692' 5/31/94 1428 gal 2% KCl gel w/ 20 ball sealers  
4678' - 4680' Balled off ATP-3200#, ATR-4 bpm  
ISIP-1310.  
4586' - 4592' 5/31/94 1260 gal 2% KCl gel w/ 12 ball sealers.  
Balled off ATP-2700#, APR-4 bpm  
ISIP-1310, 5min-700, 10min-600  
15min-430, 20min-380, 30min-290  
4034' - 4036' 6/1/94 1050 gal 2% KCl gel w/ 100 ball sealers.  
4014' - 4025' Balled off ATP-2200#, ATR-5 bpm,  
ISIP-1480#, 5min-1020, 10min-980,  
15min-820 psi.  
4058' - 4061' 2/28/96 Used rig pump: 1260 gal  
4066' - 4068' 2% KCl wtr. Break @ 700  
psi. Tbg went on vacuum.  
10/13/06 5 Year MIT completed and submitted.

#### PERFORATION RECORD

5576' - 5585'	5/23/94	10 holes (9 ft)	B3
5412' - 5422'	5/23/94	7 holes (10 ft)	B1
4958' - 4963'	5/26/94	4 SPF (5 ft)	G3
4948' - 4954'	5/26/94	4 SPF (6 ft)	G3
4688' - 4692'	5/31/94	6 holes (4 ft)	R5
4678' - 4680'	5/31/94	4 holes (2 ft)	R5
4586' - 4592'	5/31/94	6 holes (6 ft)	R2
4034' - 4036'	6/1/94	4 SPF (2 ft)	Y2
4014' - 4025'	6/1/94	4 SPF (11 ft)	Y2
4058' - 4061'	2/28/96	4 SPF (3 ft)	Y3
4066' - 4068'	2/28/96	4 SPF (2 ft)	Y3

Arrow set-1 Packer  
Packer @ 3925'

4014' - 25'

4034' - 36'

4055' - 61'

4066' - 68'

4586' - 92'

4678' - 80'

4688' - 92'

4948' - 54'

4958' - 63'

5412' - 22'

5576' - 55'

PBTD @ 5697'  
TD @ 5750'

Spud Date: 5/8/94

Completion Date: 6/13/94

GL: 5359.8' KB: 5369.8' KB (10' KB)

## Balcron Monument Fed #31-17

### Injection Diagram

Initial Production: 110 BO, 17 BW

#### SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 347.15' (3 jts)  
DEPTH LANDED: 355' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 275 sxs class "G" + 2%  
CaCl + 1/4 #/sk CelloSeal

#### PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: K-55  
WEIGHT: 15.5#  
LENGTH: 5732.95' (132 jts)  
DEPTH LANDED: 5741.98' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 165 sxs Class "G" w/ 4% Thrifty  
Finc + 3% salt + 3 #/sk CSE +  
1/4 #/sk celloseal, tailed w/ 275  
sxs 50-50 POZ + 2% gel + 10%  
salt + 1/4 #/sk celloseal  
CEMENT TOP AT: 2410' K

#### Tubing Record

SIZE/GRADE/WT: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 127 jts (3913.81')  
SEATING NIPPLE: 2-7/8" X 1.1'  
ARROW SET 1 PACKER: 2-3/8" x 5-1/2" x 6.20'  
PACKER LANDED AT: 3925' KB  
PKR Set W/ 9" (10,000#) Tension  
CONVERSION: 1) Tag fill @ 5683' KB  
2) T/H w/ RBP & PKR and pump filtered  
KCL water to establish injection rate  
into each zone.  
3) Replace 2-3/8" tbg with new 2-7/8" tbg  
from Murti-Co.  
4) Pump PKR fluid and Set Arrow Set-1 PKR  
@ 3925'. Press. test csg to 1000 psi. Good.

PACKER FLUID: Champion Cortron 2383 PKR fluid  
mixed w/ 61 bbls 2% KCl water. 10/18/96

MIT RECORD: 11/13/96 Witnessed by  
Dan Jarvis w/ the Utah  
Oil & Gas Commission.  
1520 psi had been applied 24 hr  
previously & still holding 1520 psi.

Cement Top 2410' KB

Arrow set-1 Packer  
Packer @ 3925'

4014'-25'  
4034'-36'  
4058'-61'  
4066'-68'  
4586'-92'  
4678'-80'  
4688'-92'  
4948'-54'  
4958'-63'  
5412'-22'  
5576'-85'

PBTD @ 5697'  
TD @ 5750'

#### FRAC JOB

5576' - 5585' 5/24/94 29,109 gal 2% KCl gel w/ 30,880 #  
20/40 + 21,500# 16/30. Flushed w/  
5409 gal 2% KCl wtr. ATP-2480#.  
ATR-30.1 bpm, ISIP-1650#, 5min-1520,  
10min-1450, 15min-1410, force closure  
4958' - 4963' 5/26/94 17,366 gal 2% KCl gel w/ 33,300 #  
16/30. Flush w/ 4936 gal 2% KCl wtr.  
ATP-2500#, ATR-29.9 bpm, ISIP-2150#.  
5min-1940, 10min-1750, 15min-1650.  
4586' - 4592' 6/1/94 16,328 gal 2% KCl gel w/ 25,000#  
16/30. Flush w/ 4578 gal 2% KCl wtr.  
ATP-2500#, ATR-29.9 bpm, ISIP-1900#.  
5min-1700, 10min-1630, 15min-1550.  
4034' - 4036' 6/1/94 27,998 gal 2% KCl gel w/ 50,280#  
16/30 ATP-2200#, ATR-31 bpm, ISIP-  
1950#, 5min-1800, 10min-1720,  
15min-1500, 20min-1430, 30min-1280.

#### ACID JOB / BREAKDOWN JOB

5576' - 5585' 5/24/94 500 gal 15% HCl + 126 gal 2% KCl  
wtr w/ 20 ball sealers. No ball off.  
ATP-2400#, ATR-4 bpm, ISIP-1600#  
5412' - 5422' 5/24/94 500 gal 15% HCl + 126 gal 2% KCl  
wtr w/ 14 ball sealers. Balled off.  
ATP-3600#, ATR-4 bpm, ISIP-1200#  
4958' - 4963' 5/26/94 2688 gal 2% KCl w/ 100 ball sealers.  
Balled out ATP-3600#, ATR-6 bpm,  
ISIP-1800#, 5min-1230, 10min-810,  
15min-640, 20min-600, 30min-390.  
4688' - 4692' 5/31/94 1428 gal 2% KCl gel w/ 20 ball sealers  
Balled off ATP-3200#, ATR-4 bpm  
ISIP-1310.  
4586' - 4592' 5/31/94 1260 gal 2% KCl gel w/ 12 ball sealers.  
Balled off. ATP-2700#, APR-4 bpm  
ISIP-1310, 5min-700, 10min-600  
15min-430, 20min-380, 30min-290  
4034' - 4036' 6/1/94 1050 gal 2% KCl gel w/ 100 ball sealers.  
Balled off. ATP-2200#, ATR-5 bpm,  
ISIP-1480#, 5min-1020, 10min-980,  
15min-820 psi.  
4058' - 4061' 2/28/96 Used rig pump: 1260 gal  
2% KCl wtr. Break @ 700  
psi. Tbg went on vacuum.  
4066' - 4068' 5 Year MIT completed and submitted.  
10/13/06

#### PERFORATION RECORD

5576' - 5585'	5/23/94	10 holes (9 ft)	B3
5412' - 5422'	5/23/94	7 holes (10 ft)	B1
4958' - 4963'	5/26/94	4 SPF (5 ft)	G3
4948' - 4954'	5/26/94	4 SPF (6 ft)	G3
4688' - 4692'	5/31/94	6 holes (4 ft)	R5
4678' - 4680'	5/31/94	4 holes (2 ft)	R5
4586' - 4592'	5/31/94	6 holes (6 ft)	R2
4034' - 4036'	6/1/94	4 SPF (2 ft)	Y2
4014' - 4025'	6/1/94	4 SPF (11 ft)	Y2
4058' - 4061'	2/28/96	4 SPF (3 ft)	Y3
4066' - 4068'	2/28/96	4 SPF (2 ft)	Y3

NEWFIELD

Balcron Monument Federal #31-17  
660 FNL 1980 FEL  
NW NE Section 17-T9S-R17E  
Duchesne Co, Utah  
API #43-013-31428; Lease #UTU-72106



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-72106
<b>1. TYPE OF WELL</b> Water Injection Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY		<b>7. UNIT or CA AGREEMENT NAME:</b> GMBU (GRRV)
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630 , Myton, UT, 84052		<b>8. WELL NAME and NUMBER:</b> MON FED 31-17
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0660 FNL 1980 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNE Section: 17 Township: 09.0S Range: 17.0E Meridian: S		<b>9. API NUMBER:</b> 43013314280000
<b>PHONE NUMBER:</b> 435 646-4825 Ext		<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE
<b>COUNTY:</b> DUCHESNE		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 8/25/2016	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION	
<input type="checkbox"/> DRILLING REPORT Report Date:	OTHER: <input type="text" value="5 YR MIT"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. 5 YR MIT performed on the above listed well. On 08/25/2016 the casing was pressured up to 1075 psig and charted for 30 minutes with no pressure loss. The well was injecting during the test. The tbg pressure was 1572 psig during the test. There was not an EPA representative available to witness the test. EPA #UT22197-04315		
Accepted by the Utah Division of Oil, Gas and Mining <b>FOR RECORD ONLY</b> September 02, 2016		
<b>NAME (PLEASE PRINT)</b> Lucy Chavez-Naupoto	<b>PHONE NUMBER</b> 435 646-4874	<b>TITLE</b> Water Services Technician
<b>SIGNATURE</b> N/A	<b>DATE</b> 8/29/2016	

# Mechanical Integrity Test

## Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency  
Underground Injection Control Program  
999 18<sup>th</sup> Street, Suite 500 Denver, CO 80202-2466

EPA Witness: \_\_\_\_\_ Date: 8/25/2014  
Test conducted by: EVERETT UNRUH  
Others present: \_\_\_\_\_

Well Name: <u>Monument Fed. 31-17-9-17</u>	Type: <u>ER SWD</u>	Status: <u>AC TA UC</u> <span style="float: right;">-0435</span>
Field: <u>Monument Butte</u>		
Location: <u>NWNE</u> Sec: <u>17</u> T <u>9</u> N/S R <u>17</u> E/W	County: <u>Duchesne</u> State: <u>UT</u>	
Operator: <u>Newfield</u>		
Last MIT: <u>1</u> / <u>1</u>	Maximum Allowable Pressure: <u>1736</u>	PSIG

Is this a regularly scheduled test? ☒ Yes ☐ No  
Initial test for permit? ☐ Yes ☒ No  
Test after well rework? ☐ Yes ☒ No  
Well injecting during test? ☒ Yes ☐ No If Yes, rate: 42 bpd

Pre-test casing/tubing annulus pressure: 0/1514 psig

MIT DATA TABLE		Test #1	Test #2	Test #3
<b>TUBING</b>		<b>PRESSURE</b>		
Initial Pressure		1571 psig	psig	psig
End of test pressure		1572 psig	psig	psig
<b>CASING / TUBING</b>		<b>ANNULUS PRESSURE</b>		
0 minutes		1077 psig	psig	psig
5 minutes		1077 psig	psig	psig
10 minutes		1076 psig	psig	psig
15 minutes		1076 psig	psig	psig
20 minutes		1076 psig	psig	psig
25 minutes		1075 psig	psig	psig
30 minutes		1075 psig	psig	psig
_____ minutes		psig	psig	psig
_____ minutes		psig	psig	psig
<b>RESULT</b>		<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

Does the annulus pressure build back up after the test? ☐ Yes ☒ No

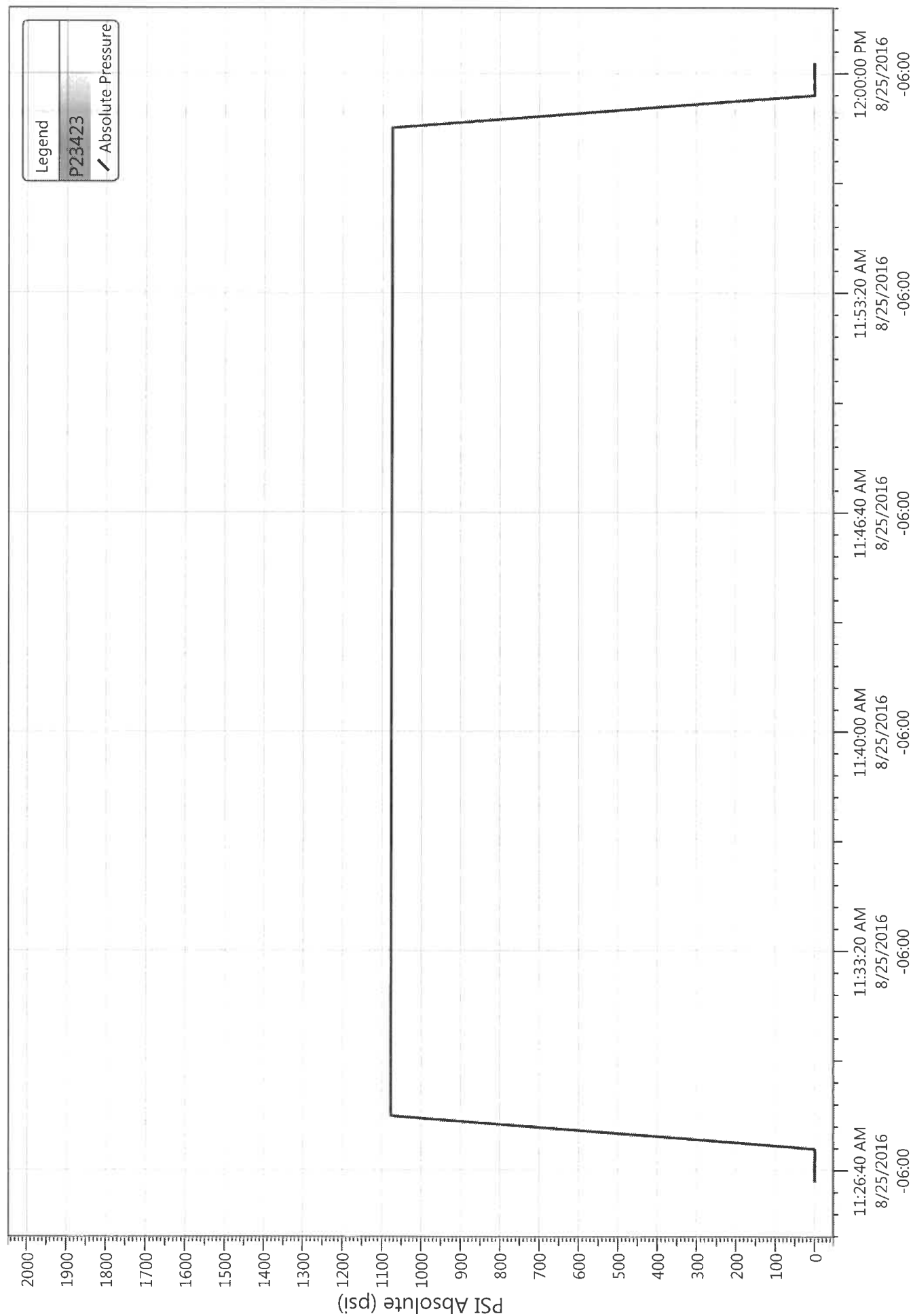
## MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

Signature of Witness: \_\_\_\_\_

Monument Fed. 31-17-9-17 (8/25/2016, 5yr. MIT)

8/25/2016 11:25:40 AM





WELL NAME: **BALCRON MONUMENT FED #31-17**

FIELD: Monument Butte (Beluga Unit)

FEDERAL LEASE NO.: UIU-72106

LOCATION: NW NE Sec.17, T9S, R17E

FOOTAGE: 660' FNL, 1980' FEL

COUNTY/STATE: Duchesne / Utah

WORKING INTEREST: 0.91491728

PRODUCING FORMATION: Green River

COMPLETION DATE: 6/13/94

INITIAL PRODUCTION: 110 BO, 17 BW

OIL/GAS PURCHASER: Amoco

PRESENT PROD STATUS: Prod

ELEVATIONS - GROUND: 5369' GL

TOTAL DEPTH: 5750' KB

DATE: 3/22/96 vk

API NO.: 43-013-31428

NET REVENUE INTEREST: OIL : 0.80471769

GAS : 0.73108274

SPUD DATE: 5/8/94

OIL GRAVITY: 34

BHT:

KB: 5379' KB (10' KB)

PLUG BACK TD: 5697.35' KB

#### **SURFACE CASING**

STRING: 1  
CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 347.15' (8 jts)  
DEPTH LANDED: 355' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 225 sxs class "G" + 2%  
CaCl + 1/4 #/sx CelloSeal

#### **TUBING RECORD**

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 128 jts (3963.6 ft)  
TUBING ANCHOR: 2-7/8" x 5-1/2" (2.35 ft) (w/ 14" tension)  
NO. OF JOINTS: 52 jts (1611.23 ft)  
SEATING NIPPLE: 2-7/8" x 1.1'  
PERFORATED SUB: 2-7/8" x 4.20'  
MUD ANCHOR: 2-7/8" x 28.5' w/ NC  
TOTAL STRING LENGTH: 5610.98' (EOT @ 5621' KB)  
SN LANDED AT: 5588.28' KB

#### **SUCKER ROD RECORD**

POLISHED ROD: 1-1/4" x 22' SM  
SUCKER RODS: one - 3/4" x 2' pony  
two - 3/4" x 8' pony  
221 - 3/4" x 25' D-61 Plain

TOTAL STRING LENGTH: 5559.5 ft

PUMP NUMBER: Trico #1117  
PUMP SIZE: 2-1/2" x 1-1/2" x 15-1/2' RHAC  
w/ SM plunger

STROKE LENGTH: 72"  
PUMP SPEED, SPM: 6 SPM  
PUMPING UNIT SIZE: CMI 160-200-74  
PRIME MOVER: AJAX EA-30

LOGS: DLL - MSFL - CNLD  
CBL

#### **PRODUCTION CASING**

STRING: 1  
CSG SIZE: 5-1/2"  
GRADE: K-55  
WEIGHT: 15.5#  
LENGTH: 5732.98' (132 jts)  
DEPTH LANDED: 5741.98' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 165 sxs Class "G" w/ 4% Thrfty  
Lite + 3% salt + 3 #/sx CSE +  
1/4 #/sx celloseal, tailed w/ 275  
sxs 50/50 POZ + 2% gel + 10%  
salt + 1/4 #/sx celloseal  
CEMENT TOP AT: 2410' KB (per CBL)

#### **PERFORATION RECORD**

4014' - 4025'	6/1/94	4 SPF	(11 ft)	Y2
4034' - 4036'	6/1/94	4 SPF	(2 ft)	Y2
4058' - 4061'	2/28/96	4 SPF	(3 ft)	Y3
4066' - 4068'	2/28/96	4 SPF	(2 ft)	Y3
4586' - 4592'	5/31/94	6 holes	(6 ft)	R2
4678' - 4680'	5/31/94	4 holes	(2 ft)	R5
4688' - 4692'	5/31/94	6 holes	(4 ft)	R5
4948' - 4954'	5/26/94	4 SPF	(6 ft)	G3
4958' - 4963'	5/26/94	4 SPF	(5 ft)	G3
5412' - 5422'	5/23/94	7 holes	(10 ft)	B1
5576' - 5585'	5/23/94	10 holes	(9 ft)	B3

#### **ACID JOB / BREAKDOWN JOB**

5576' - 5585'	5/24/94	500 gal 15% HCl + 126 gal 2% KCl wtr w/ 20 ball sealers. No ball off. ATP-2400#, ATR-4 bpm, ISIP-1600#
5412' - 5422'	5/24/94	500 gal 15% HCl + 126 gal 2% KCl wtr w/ 14 ball sealers. Balled off. ATP-3600#, ATR-4 bpm, ISIP-1200#
4958' - 4963' & 4948' - 4954'	5/26/94	2688 gal 2% KCl w/ 100 ball sealers. Balled out. ATP-3000#, ATR-6 bpm, ISIP-1800#, 5min-1230, 10min-810, 15min-640, 20min-600, 30min-390.
4688' - 4692' & 4678' - 4680'	5/31/94	336 gal 2% KCl wtr w/ 20 ball sealers. Balled off. ATP-3200#, ATR-4 bpm ISIP-not read.
4586' - 4592'	5/31/94	1386 gal 2% KCl wtr w/ 12 ball sealers. Balled off. ATP-2700#, APR-4 bpm ISIP-1310, 5min-700, 10min-600 15min-430, 20min-380, 30min-290
4034' - 4036' & 4014' - 4025'	6/1/94	2310 gal 2% KCl wtr w/ 100 ball sealers. Balled off. ATP-2200#, ATR-5 bpm, ISIP-1480#, 5min-1020, 10min-980, 15min-820 psi.
4058' - 4061' & 4066' - 4068'	2/28/96	Breakdown w/ rig pump. Pumped at 700 psi w/ 1260 gal water. Tbg on vacuum after breakdown.



# EQUITABLE RESOURCES ENERGY COMPANY

3/22/96 vk

BALCRON MONUMENT FED #31-17

NW NE Sec.17, T9S, R17E

660' FNL, 1980' FEL

Monument Butte (Beluga Unit)

Duchesne County, Utah

WELL DATA CONTINUED

PAGE TWO

## FRAC JOB

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5576' - 5585', 5412'-5422'	5/24/94 Frac w/ Western 29,109 gal 2% KCl gel wtr w/ 30,880 # 20/40 + 21,500# 16/30, Flushed w/ 5409 gal 2% KCl wtr. ATP-2480#, ATR-30.1 bpm, ISIP-1650#, 5min-1520, 10min-1480, 15min-1410, force closure
4958' - 4963', 4948'-4954'	5/26/94 Frac w/ Western 17,366 gal 2% KCl gel wtr w/ 33,300 # 16/30, Flush w/ 4956 gal 2% KCl wtr. ATP-2500#, ATR-29.9 bpm, ISIP-2150#, 5min-1940, 10min-1750, 15min-1650.
4586' - 4592', 4678'-4680', 4688' - 4692'	6/1/94 Frac w/ Western 16,328 gal 2% KCl gel wtr w/ 25,000# 16/30. Flush w/ 4578 gal 2% KCl wtr. ATP-3500#, ATR-29.9 bpm, ISIP-1900#, 5min-1700, 10min-1630, 15min-1580.
4034' - 4036', 4014'-4025'	6/1/94 Frac w/ Western 27,998 gal 2% KCl gel wtr w/ 50,280# 16/30. ATP-2200#, ATR-31 bpm, ISIP- 1950#, 5min-1800, 10min-1720, 15min-1500, 20min-1430, 30min-1280.

Elev.GR - 5369' GL  
Elev.KB - 5379' KB (10' KB)

**WELLBORE DIAGRAM**

DATE : 3/22/96 vk

**SURFACE CASING**

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 347.15' (8 jts)  
DEPTH LANDED: 355' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 225 sxs class "G" + 2%  
CaCl + 1/4 #/sx CelloSeal

**PRODUCTION CASING**

CSG SIZE: 5-1/2"  
GRADE: K-55  
WEIGHT: 15.5#  
LENGTH: 5732.98' (132 jts)  
DEPTH LANDED: 5741.98' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 165 sxs Class "G" w/ 4% Thrifty  
Lite + 3% salt + 3 #/sx CSE +  
1/4 #/sx celloseal, tailed w/ 275  
sxs 50/50 POZ + 2% gel + 10%  
salt + 1/4 #/sx celloseal  
CEMENT TOP AT: 2410' KB (per CBL)

**TUBING**

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 128 jts (3963.6 ft)  
TUBING ANCHOR: 2-7/8" x 5-1/2" (2.35 ft) (w/ 14" tension)  
NO. OF JOINTS: 52 jts (1611.23 ft)  
SEATING NIPPLE: 2-7/8" x 1.1"  
PERFORATED SUB: 2-7/8" x 4.20"  
MUD ANCHOR: 2-7/8" x 28.5" w/ NC  
TOTAL STRING LENGTH: 5610.98' (EOT @ 5621' KB)  
SN LANDED AT: 5588.28' KB

**SUCKER RODS**

POLISHED ROD: 1-1/4" x 22" SM  
SUCKER RODS: one - 3/4" x 2' pony  
two - 3/4" x 8' pony  
221 - 3/4" x 25' D-61 Plain

TOTAL STRING LENGTH: 5559.5 ft

PUMP NUMBER: Trico #1117  
PUMP SIZE: 2-1/2" x 1-1/2" x 15-1/2" RHAC  
w/ SM plunger

STROKE LENGTH: 72"  
PUMP SPEED, SPM: 6 SPM  
PUMPING UNIT SIZE: CMI 160-200-74  
PRIME MOVER: AJAX EA-30

LOGS: DLL - MSFL - CNLD  
CBL

355' KB

TOC @ 2410' KB

**ACID JOB /BREAKDOWN**

5576' - 5585'	5/24/94	500 gal 15% HCl + 126 gal 2% KCl wtr w/ 20 ball sealers. No ball off. ATP-2400#, ATR-4 bpm, ISIP-1600# 500 gal 15% HCl + 126 gal 2% KCl wtr w/ 14 ball sealers. Balled off. ATP-3600#, ATR-4 bpm, ISIP-1200# 2688 gal 2% KCl w/ 100 ball sealers. Balled out. ATP-3000#, ATR-6 bpm, ISIP-1800#, 5min-1230, 10min-810, 15min-640, 20min-600, 30min-390. 336 gal 2% KCl wtr w/ 20 ball sealers Balled off. ATP-3200#, ATR-4 bpm ISIP-not read.
5412' - 5422'	5/24/94	1386 gal 2% KCl wtr w/ 12 ball sealers. Balled off. ATP-2700#, APR-4 bpm ISIP-1310, 5min-700, 10min-600 15min-430, 20min-380, 30min-290 2310 gal 2% KCl wtr w/ 100 ball sealers. Balled off. ATP-2200#, ATR-5 bpm, ISIP-1480#, 5min-1020, 10min-980, 15min-820 psi.
4958' - 4963' & 4948' - 4954'	5/26/94	Breakdown w/ rig pump. Pumped at 700 psi w/ 1260 gal water. Tbg on vacuum after breakdown.
4688' - 4692' & 4678' - 4680'	5/31/94	
4586' - 4592'	5/31/94	
4034' - 4036' & 4014' - 4025'	6/1/94	
4058' - 4061' & 4066' - 4068'	2/28/96	

**FRAC JOB**

5576' - 5585', 5412' - 5422'	5/24/94	Frac w/ Western 29,109 gal 2% KCl gel w/ 30,880 # 20/40 + 21,500# 16/30, Flushed w/ 5409 gal 2% KCl wtr. ATP-2480#, ATR-30.1 bpm, ISIP-1650#, 5min-1520, 10min-1480, 15min-1410, force closure
4958' - 4963', 4948' - 4954'	5/26/94	Frac w/ Western 17,366 gal 2% KCl gel w/ 33,300 # 16/30, Flush w/ 4956 gal 2% KCl wtr. ATP-2500#, ATR-29.9 bpm, ISIP-2150#, 5min-1940, 10min-1750, 15min-1650.
4586' - 4592', 4678' - 4680', 4688' - 4692'	6/1/94	Frac w/ Western 16,328 gal 2% KCl gel w/ 25,000# 16/30. Flush w/ 4578 gal 2% KCl wtr. ATP-3500#, ATR-29.9 bpm, ISIP-1900#, 5min-1700, 10min-1630, 15min-1580.
4034' - 4036', 4014' - 4025'	6/1/94	Frac w/ Western 27,998 gal 2% KCl gel w/ 50,280# 16/30. ATP-2200#, ATR-31 bpm, ISIP- 1950#, 5min-1800, 10min-1720, 15min-1500, 20min-1430, 30min-1280.

**PERFORATION RECORD**

4014' - 4025'	6/1/94	4 SPF	(11 ft)	Y2
4034' - 4036'	6/1/94	4 SPF	(2 ft)	Y2
4058' - 4061'	2/28/96	4 SPF	(3 ft)	Y3
4066' - 4068'	2/28/96	4 SPF	(2 ft)	Y3
4586' - 4592'	5/31/94	6 holes	(6 ft)	R2
4678' - 4680'	5/31/94	4 holes	(2 ft)	R5
4688' - 4692'	5/31/94	6 holes	(4 ft)	R5
4948' - 4954'	5/26/94	4 SPF	(6 ft)	G3
4958' - 4963'	5/26/94	4 SPF	(5 ft)	G3
5412' - 5422'	5/23/94	7 holes	(10 ft)	B1
5576' - 5585'	5/23/94	10 holes	(9 ft)	B3

SN LANDED @ 5586' KB  
EOT LANDED @ 5621' KB

PBTD @ 5697' KB  
TD @ 5750' KB



BALCRON MONUMENT FED #31-17  
NW NE Sec.17, T9S, R17E  
660' FNL, 1980' FEL  
Lease #UIU-72106  
Monument Butte Field (Beluga Unit)  
Duchesne County, Utah

Elev. GR - 5369' GL  
Elev. KB - 5379' KB (10' KB)

### Proposed Injection Wellbore Diagram

DATE : 3/22/96 JZ

#### SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 347.15' (8 jts)  
DEPTH LANDED: 355' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 225 sxs class "G" + 2%  
CaCl + 1/4 #/sx CelloSeal

355' KB

#### PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: K-55  
WEIGHT: 15.5#  
LENGTH: 5732.98' (132 jts)  
DEPTH LANDED: 5741.98' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 165 sxs Class "G" w/ 4% Thrifty  
Lite + 3% salt + 3 #/sx CSE +  
1/4 #/sx celloseal, tailed w/ 275  
sxs 50/50 POZ + 2% gel + 10%  
salt + 1/4 #/sx celloseal

CEMENT TOP AT: 2410' KB (per CBL)

Uinta Formation Surface to 1450 ft.

TOC @ 2410' KB

#### PERFORATION RECORD

4014' - 4025'	6/1/94	4 SPF	(11 ft)	Y2
4034' - 4036'	6/1/94	4 SPF	(2 ft)	Y2
4058' - 4061'	2/28/96	4 SPF	(3 ft)	Y3
4066' - 4068'	2/28/96	4 SPF	(2 ft)	Y3
4586' - 4592'	5/31/94	6 holes	(6 ft)	R2
4678' - 4680'	5/31/94	4 holes	(2 ft)	R5
4688' - 4692'	5/31/94	6 holes	(4 ft)	R5
4948' - 4954'	5/26/94	4 SPF	(6 ft)	G3
4958' - 4963'	5/26/94	4 SPF	(5 ft)	G3
5412' - 5422'	5/23/94	7 holes	(10 ft)	B1
5576' - 5585'	5/23/94	10 holes	(9 ft)	B3

#### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 3944 ft  
SEATING NIPPLE: 2-7/8" x 1.1'  
ARROW SET 1 PACKER: 5-1/2" x 4'  
PACKER LANDED AT: 3959' KB

Green River Formation 1450 to 5400 ft.

ARROW SET-1 PACKER  
SET AT 3959' KB

4014' - 4025'  
4034' - 4036'

4058' - 4061'  
4066' - 4068'

4586' - 4592'

4678' - 4680'  
4688' - 4692'

4948' - 4954'  
4958' - 4963'

5412' - 5422'

5576' - 5585'

Douglas Creek Member 4550 to 5400 ft.  
Wasatch Fm. Transition 5400 to 5950 ft.

PBTD @ 5697' KB  
TD @ 5750' KB

Wasatch Formation 5950 ft.



# EQUITABLE RESOURCES ENERGY COMPANY

BALCRON MONUMENT FED #31-17  
NW NE Sec.17, T9S, R17E  
660' FNL, 1980' FEL  
Lease #UIU-72106  
Monument Butte Field (Beluga Unit)  
Duchesne County, Utah

Elev.GR - 5369' GL  
Elev.KB - 5379' KB (10' KB)

## Proposed Plugging & Abandonment Diagram

DATE : 3/22/96 JZ

### SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 347.15' (8 jts)  
DEPTH LANDED: 355' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 225 sxs class "G" + 2%  
CaCl + 1/4 #/sx CelloSeal

355' KB

Permanent P&A marker w/ identifying well information.

Plug No.2 Surface to 455 ft.  
Perforate csg at 100 ft below  
the surface csg shoe & circulate  
100 sx of Class-G Cement

### PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: K-55  
WEIGHT: 15.5#  
LENGTH: 5732.98' (132 jts)  
DEPTH LANDED: 5741.98' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 165 sxs Class "G" w/ 4% Thrfty  
Lite + 3% salt + 3 #/sx CSE +  
1/4 #/sx celloseal, tailed w/ 275  
sxs 50/50 POZ + 2% gel + 10%  
salt + 1/4 #/sx celloseal

CEMENT TOP AT: 2410' KB (per CBL)

Uinta Formation Surface to 1450 ft.

TOC @ 2410' KB

### PERFORATION RECORD

4014' - 4025'	6/1/94	4 SPF	(11 ft)	Y2
4034' - 4036'	6/1/94	4 SPF	(2 ft)	Y2
4058' - 4061'	2/28/96	4 SPF	(3 ft)	Y3
4066' - 4068'	2/28/96	4 SPF	(2 ft)	Y3
4586' - 4592'	5/31/94	6 holes	(6 ft)	R2
4678' - 4680'	5/31/94	4 holes	(2 ft)	R5
4688' - 4692'	5/31/94	6 holes	(4 ft)	R5
4948' - 4954'	5/26/94	4 SPF	(6 ft)	G3
4958' - 4963'	5/26/94	4 SPF	(5 ft)	G3
5412' - 5422'	5/23/94	7 holes	(10 ft)	B1
5576' - 5585'	5/23/94	10 holes	(9 ft)	B3

Green River Formation 1450 to 5400 ft.

### PLUGGING PROCEDURE

Enter the well w/tbg and wash to TD. If the well is not dead, circulate mud with sufficient weight to kill the well. Pump a balanced cement plug using 260 sacks across the Douglas Creek Member of the Green River Formation from TD to at least 300 ft above the upper most perms. The production csg will be perforated for two feet using 4 SPF at a point 100 ft below the surface csg shoe. Circulation will be established to surface and cement will be circulated to fill the production csg & the annulus from the perforations to surface using 100 sx of class-G cement. The top of the second cement plug will be at the surface & the bottom will be 100 ft below the surface csg shoe. A P&A marker will be set to identify the location.

4014' - 4025'  
4034' - 4036'

4058' - 4061'  
4066' - 4068'

4586' - 4592'

4678' - 4680'  
4688' - 4692'

4948' - 4954'  
4958' - 4963'

5412' - 5422'

5576' - 5585'

Plug No.1 TD to 3714 ft.  
260 sx of Class-G Cement

Douglas Creek Member 4550 to 5400 ft.  
Wasatch Fm. Transition 5400 to 5950 ft.

PBTD @ 5697' KB  
TD @ 5750' KB

Wasatch Formation 5950 ft.

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